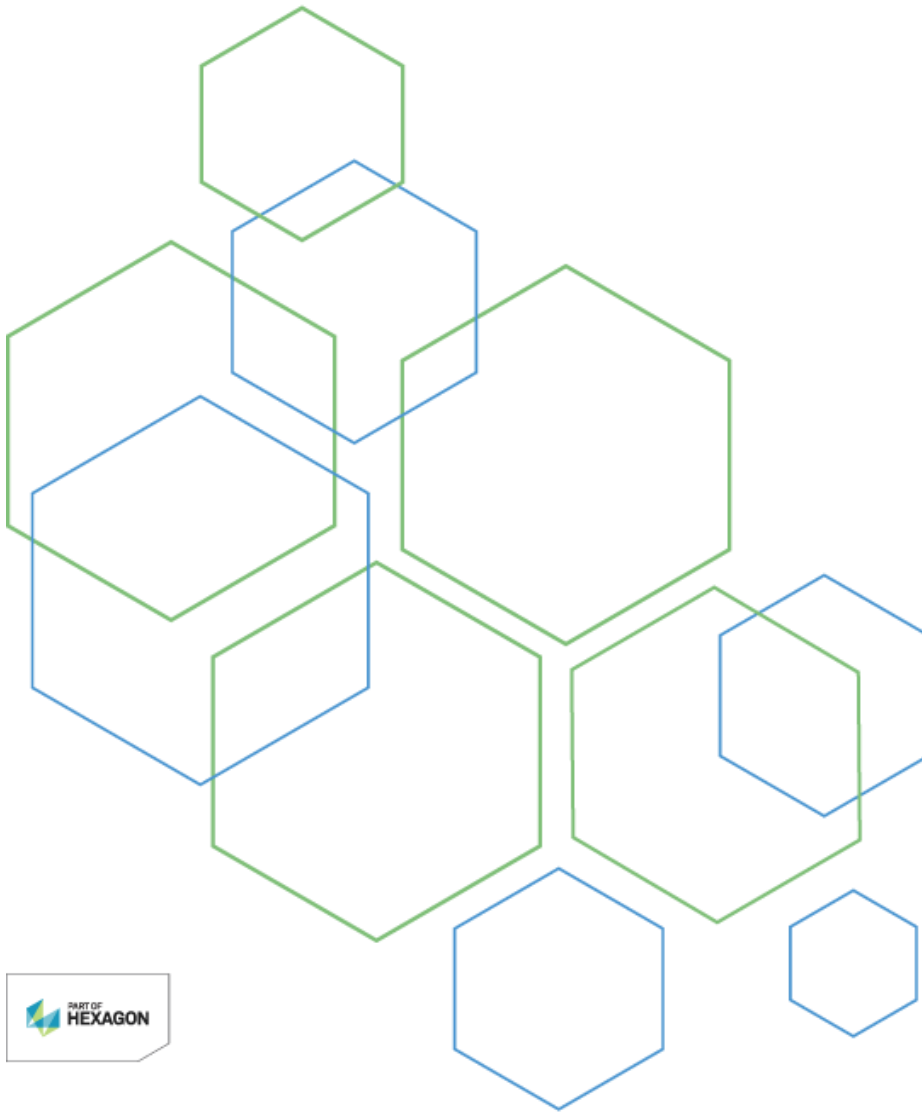


INTERGRAPH® *Smart* ➞ 3D

Database Integrity

Reference Guide



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Preface

This document is a database integrity guide for Intergraph Smart™ 3D. The purpose of this document is to describe the database integrity messages for the different tasks in the software.

Documentation Comments

For the latest support information for this product, comments or suggestions about this documentation, and documentation updates for supported software versions, please visit *Intergraph Smart Support* (<https://smartsupport.intergraph.com>).

What's New in Database Integrity

The following items have changed in or been added to the *Database Integrity Guide*:

Version 2016 (11.0)

- Removed the **No Action** option from the **Action To Take** column of the **Clean Database** dialog box. For more information, see *Clean Database Dialog Box* (on page 35). (P2 CP:262183)

CommonApp

- *An object and its related internal objects are in different permission groups* (on page 38)

Common Route

- *EquipCableNozzle Has Bad Persistent Flag* (on page 61)

Common Structure

- *Error code 25 - unspecified error description* (on page 104)
- *Permission group of Cutout differs from its parent's permission group* (on page 113)

Molded Forms

- *Invalid relation between ReferencesCollection and sketching plane* (on page 311)

Route Cable

- *Cable Occurrences which do not have updated cable length values* (on page 448)

Structural Detailing

- *Sketch Feature should not be connected to Definition Collection* (on page 512). (P2 CP:286943)
- *The Sketching Plane of Sketched Feature should not be from Cut Geometry* (on page 513). (P2 CP:286943)

SECTION 1

Understanding Database Integrity

Database integrity problems are data problems that can prevent modeling and can impact the accuracy of deliverables such as reports. These problems can be grouped into the following types:

- Session files that cannot be read
- Runtime objects and relations that are not in a workable state or are incorrect
- Persisted objects and relations that are not in a workable state or are incorrect

A typical example of a database integrity issue is an object that exists without a mandatory relation to another object in the model. On the other hand, manufacturing issues are not considered database integrity problems.

This document contains a list of errors that are of the third type (persisted objects and relations). Some examples of this type of error are route parts without a relationship to a feature or run, or a system without a parent.

In this document, "database integrity" and "DB integrity" are used interchangeably.

★IMPORTANT

- These errors are not expected. However, in the event that they occur, you can correct them by taking the actions described in this Help file.
- We strongly recommend that you check the databases from time to time and promptly report any problems to Intergraph. Please provide details about how to reproduce the problem.
- If you receive a database integrity error that is not listed in this document, contact Intergraph Process, Power & Marine Support. Be prepared to provide a backup of the databases if requested.
- To contact Intergraph Process, Power & Marine Support, visit the web at <http://support.intergraph.com> (<http://support.intergraph.com/>).

See Also

Workflow for Addressing Database Integrity (on page 28)

SECTION 2

Workflow for Addressing Database Integrity

The workflow to address database integrity has three overall steps:

1. Check the database integrity.
2. Run reports to review the errors.
3. Clean the database to correct the errors.

Checking Database Integrity

The **Database > Integrity** command, which is available in Project Management, runs directly on a database (Site, Catalog, Model, or Reports) and creates records for the objects that need to be cleaned.

NOTE The Site and Catalog databases cannot have Database Integrity run on them if you run the command from a satellite location within a Global Workshare Configuration.

The databases available for checking vary depending on what you select before clicking this command. After a database has been scanned for errors, you can generate a report to review the errors that the **Database > Integrity** command generated (see *Running Database Integrity Reports* below).

NOTE You can run the **Database > Integrity** command in Project Management, or as a custom command in Project Management or the host. The ProgID for the custom command is *SP3DCheckDatabaseIntegrity.CCCheckObj*.

Using the Command Line to Check Database Integrity (DBI)

You can use the command line to check database integrity outside Smart 3D. When DBI is executed in Project Management, a text file called *DbIntegrityCommandLine-<PlantName>.txt* is generated in local temp folder with a command string reflecting all selections and options used. This method is especially helpful for scheduling this command to execute periodically without user interaction. You can also update diagnostics reports using the Drawing Batch Server based on this DBI schedule.

Running Database Integrity Reports


The software includes report templates intended for diagnosing database integrity issues. You can run these templates by opening a session in the software and clicking the **Run Report** command on the **Tools** menu. The report templates are located in the **Diagnostic** folder on the **Catalog Reports** tab of the **Run Report** dialog box. The Diagnostic Clean Database Issues template lists errors, with each error occupying two rows in the report. Other Diagnostic Clean Database Issues templates group the errors by problem description or status. There is also a template that allows you to easily sort the errors using Excel's filtering capability on columns. The reports include the following information for the errors:

- **DataStore** - Displays whether the problem exists in the model or catalog.

- **Problem Description** - Provides a brief description of the error. Click the **Search** tab in the Database Integrity Help and type the problem description to find more information about the error, including how to fix it.
- **Status** - Displays the current status of the object: New, Existing, Resolved, Closed, or Processed. If the status is New, the error has been introduced recently due to operations in the software. If the status is Existing, the error has been present for some time. If the status is Resolved, the object had an error, and the problem was corrected. If the status is Closed, the object has been deleted or cleaned after the **Database > Integrity** command was last run and no further action is necessary. If the status is Processed, the object has been cleaned, and you should run the **Database > Integrity** command to see if further actions should be taken.
- **Severity** - Displays the severity of the error: Fatal, Crucial, High, or Normal. The severity is a quick way to evaluate how important the problem is. Usually, a Normal severity has no impact, and a Fatal severity is a very serious problem.
- **Action to Take** - Describes what to do to fix the problem. The actions include User Action, To Be Removed, To Be Repaired, To Be Checked By DBChecker, and Admin Action. If the action is To Be Checked By DBChecker, you should run the **Database > Integrity** command again. For the To Be Removed and To Be Repaired actions, see the following section.


Cleaning Errors

If the action on the report is To Be Removed or To Be Repaired, run the **Clean Database** custom command to delete or clean the object. For more information about deleting and cleaning objects, see *Clean a Database* (on page 34).

 **NOTE** The Site and Catalog Database cannot be cleaned from a satellite location within a Global Workshare Configuration.

When a database integrity error is logged against an object, the software specifies an ActionOID that denotes the object on which a possible correction will be performed. The **Clean Database** command performs its cleaning action on this object referred to by the ActionOID. This object may be the object in error, or it may be a related object.

An example is when a weld is in error, but the update to correct the problem needs to be done on the related connection.

 **NOTE** After you fix a problem, be sure to check that it is solved and that no new problems have been created. Re-run the **Database > Integrity** command and the DB Integrity reports, and then check the results.

Working in an Integrated Environment

When working in an integrated environment, database integrity issues can arise that require you to remove the design basis and register to another SmartPlant Foundation database. The **Remove Design Basis** custom command removes all correlation relationships and deletes all design basis objects in the 3D model.

Then, you can register the model, retrieve information, and re-correlate objects. For more information, see the Troubleshooting section in the *Integration Guide*.

See Also

Database Integrity Custom Commands (on page 30)

Database Integrity Custom Commands

The following table summarizes the database integrity custom commands, their software identification strings, and the purpose of the commands.

Custom Command	ProgID	Purpose
Check Database Integrity	SP3DCheckDatabaseIntegrity.C CheckObj	Checks for database integrity problems in a specified database. NOTES <ul style="list-style-type: none"> If you are working in Project Management, you can run this command as a custom command or with the Database > Integrity command. If you are working in the host, you can run this command as a custom command using Tools > Custom Commands. You cannot run this command from satellite locations.
Clean Database	SP3DCleanDatabaseCmd.CC ckObj	Cleans or deletes objects in a specified database.
Find Object by OID	SP3DFindObjectByReport.FindO bjects	Highlights the selected object (from a report) in a graphic view. You choose a previously run report, highlight a row in the report, and then the selected object highlights in the active graphic view. This command only works for reports that return OIDs.

See Also

Workflow for Addressing Database Integrity (on page 28)

Check database integrity

1. Select a model, catalog, or site in the Project Management tree view. Your selection determines the databases available for checking database integrity:
 - Select a model if you want to check all of the databases associated with that model.
 - Select a catalog if you want to check only the catalog database.
 - Select a site to check only the site database.
2. Select **Database > Integrity**.
*The **Check Data Consistency** dialog box displays. For more information, see Check Data Consistency Dialog Box (on page 32).*
3. Select one or more databases to process.
4. Select **Basic check** or **Full check**.
5. Click **Run** to start the command.
*Processing displays in the **Checking** window.*
6. When processing completes, click **Exit** to dismiss the dialog box.
7. Select **Tools > Run Reports**.
*The **Run Reports** dialog box displays.*
8. On the **Catalog Reports** tab, select a **Diagnostic Clean** report in the **Types of Reports > Diagnostic** folder.

TIPS

- You can also run **Tools > Run Reports** in the Common task.
- Reports can be created persistently in the Drawings and Reports task and scheduled in the drawing batch server to run periodically after a scheduled database integrity (DBI) check.

Database Integrity


Database > Integrity in Project Management runs directly on a database (site, catalog, model, or reports), and creates records for the objects that need to be cleaned.

You can run this command:

- To check the database for objects with integrity problems
- To confirm that objects have been deleted or cleaned
- To check for new problems

After you scan the database for problems, you can use **Tools > Run Report** in the Common task to review the errors that **Database > Integrity** generated.

In addition, you can use **Submit Job** on the *Check Data Consistency Dialog Box* (on page 32) to access batch services to check integrity at times when the server may be less busy. For information on setting up batch services, see the *Batch Services Quick Start Guide*.

 **NOTE** In a global workshare configuration, **Database > Integrity** is only available at the host location. Satellite locations cannot run this command.


For more information on database integrity, see the *Database Integrity Guide*.

What do you want to do?

- *Check database integrity* (on page 31)
 - *Schedule Check Data Consistency task using Batch Services* (on page 33)
 - *Run database administration processes* (on page 37)
-

Check Data Consistency Dialog Box

Provides the options for **Database > Integrity** to run directly on a database (site, catalog, model, or reports) and create records for objects that need to be cleaned.

 **NOTE** After you scan the database for problems, you can use **Tools > Run Report** (in Project Management or in the Common task) to review the errors that **Database > Integrity** generates.

Check database

Lists the names of the databases to check. If you select a model in the Project Management hierarchy prior to running the command, the list shows the catalog, model, reports, and site databases associated with that model. If you select a catalog in the hierarchy, the list only shows the catalog database. You can check more than one database in the list.

Checking

Shows the progress information for the command after you click **Run**.

Basic check

Specifies that you want to run a faster database check that checks for the most common problems. The **Basic check** can be run on a regular basis.

Full check

Specifies that you want to run a deep integrity check that checks for any type of problem. A full check can take much longer to complete than a basic check. You can run **Full check** when an uncommon problem is encountered or on an infrequent schedule, such as once per week.

The software checks a file in the *[Product Folder]\<Discipline>\Server\Schema\<Database type>\IntegrityScripts* folder to determine which queries are run for the basic or full check. The files in this folder (Site.lst, Catalog.lst, and Model.lst) correspond to the database options that display when you run the database integrity check. You can edit these files with any standard text editor.

Submit Job

Opens the **Schedule [Task]** dialog box so you can schedule this process.

Run

Runs **Database Integrity** for the selected databases. This button also creates a text file in the same TEMP folder as your log files. This text file contains a command with the parameters for running **Database Integrity** from the command line with the same parameters and options as used interactively. If only one database is selected, the text file name format is *DbIntegrityCommandLine-<DbName>.txt*. If more than one database is

selected, the text file name format is *DbIntegrityCommandLine-<ModelName>.txt*.

Exit

Closes the dialog box.

Check database integrity

1. Select a model, catalog, or site in the Project Management tree view. Your selection determines the databases available for checking database integrity:
 - Select a model if you want to check all of the databases associated with that model.
 - Select a catalog if you want to check only the catalog database.
 - Select a site to check only the site database.
2. Select **Database > Integrity**.
*The **Check Data Consistency** dialog box displays. For more information, see Check Data Consistency Dialog Box (on page 32).*
3. Select one or more databases to process.
4. Select **Basic check** or **Full check**.
5. Click **Run** to start the command.
*Processing displays in the **Checking** window.*
6. When processing completes, click **Exit** to dismiss the dialog box.
7. Select **Tools > Run Reports**.
*The **Run Reports** dialog box displays.*
8. On the **Catalog Reports** tab, select a **Diagnostic Clean** report in the **Types of Reports > Diagnostic** folder.

TIPS

- You can also run **Tools > Run Reports** in the Common task.
- Reports can be created persistently in the Drawings and Reports task and scheduled in the drawing batch server to run periodically after a scheduled database integrity (DBI) check.

Schedule Check Data Consistency task using Batch Services

1. In Project Management, click **Database > Integrity**.
*The **Check Data Consistency** dialog box displays. For more information, see Check Data Consistency Dialog Box (on page 32).*
2. Select one or more databases to process.
3. Select **Basic check** or **Full check**.
4. Click **Submit Job**.
*The **Schedule Data Consistency Check** dialog box displays.*

5. Set the batch scheduling options.
6. Click **Options** to schedule optional start and end dates.
7. Click **OK**.

Clean a Database

In some cases, cleaning objects will cause a loss of data. Before working through this procedure, you should try to find a matching error message in this document. In the **What You Should Do** section of each error topic, there may be some steps that will easily fix the problem without loss of data.

Before running this command, make a backup of all the databases using the **Backup** command in Project Management. You can later provide this backup to Intergraph if further analysis is necessary.

In order to clean objects, you must have access to the objects. You must have Full Control on all permission groups in order to delete the objects.

1. Start the software.
2. Click **Tools > Custom Commands**.
3. Click **Add** on the dialog box.
4. In the **Command ProgID** box, type **SP3DCleanDatabaseCmd.CCheckObj**.
5. In the **Command name** box, type text such as **Clean Database**.
6. Click **OK** on the **Add Custom Command** dialog box.
7. Select the command name, and then click **Run**.
8. On the **Clean Database** dialog box, specify the type of database in the **Database type** box.
9. In the grid, select the object(s) to clean and click **Clean Now**.

TIPS

- You can select multiple objects by holding SHIFT or CTRL while clicking the objects.
 - You can sort the columns on the dialog box by clicking the column headings.
 - Click **Select All** or **Clear All** to select or clear all the rows.
10. When the process finishes, click **View Log** to review the log file. It is possible that the cleaning operation was not successful. Review the log file for more information.

NOTES

- You do not need to have the objects with errors loaded in the workspace for this command to work. However, if the objects are not in the workspace, you will not graphically see the result of running the command when you refresh the workspace.
- The **Clean Database** command cannot repair objects in nonworking approval state and objects owned by another GWC location.
- When you run this command on models participating in a GWC, make sure that the command is performed on only one location at a time.
- Run **Clean Database** on the host model before you run the command on any satellite models.

Clean Database Dialog Box

Allows you to choose which objects to clean. You can sort the columns in the grid by clicking the column headings.

Database type

Specifies whether you want to clean the Catalog or Model database.

Select objects to clean

Shows a grid listing all the objects with integrity problems.

OID

Shows a unique identifier for each object.

Status

Displays the current status of each object: **New**, **Existing**, **Resolved**, **Closed**, or **Processed**.

Action To Take

Describes what to do to fix the problem. The actions include **To Be Removed**, **To Be Repaired**, and **To Be Checked By DBChecker**.

Severity

Displays the severity of the problem: **Fatal**, **Crucial**, **High**, or **Normal**.

Description

Provides a brief description of the problem.

Date Created

Shows the date when the problem was first detected.

Date Last Modified

Shows the date when the problem was last checked.

Code List Name

Shows the name of the codelist that applies to the object.

Clean Now

Cleans all objects selected in the grid.

Select All

Selects all objects in the grid. You can also select multiple objects on this dialog box by holding SHIFT or CTRL while clicking the objects.

Clear All

Clears (un-selects) all objects in the grid.

View Log

Displays a log file for the process in a separate window.

Find Objects by Report


The purpose of this command is to visualize the objects with integrity problems in a graphic view. Only graphical objects from the Model database will be displayed. Nothing from the Catalog or any drawing and report objects will appear.

Before running this command, you must define your workspace to include the objects with integrity problems (the workspace can include other objects also). Run a database integrity report, and use the reported OIDs of the objects in the workspace definition.

1. Start the software.
2. Click **Tools > Custom Commands**.
3. Click **Add** on the dialog box.
4. In the **Command ProgID** box, type **SP3DFindObjectByReport.FindObjects**.
5. In the **Command name** box, type text such as **Find Object by Report**.
6. Click **OK** on the **Add Custom Command** dialog box.
7. Select the command name, and then click **Run**.
8. On the **Select Report** dialog box, browse to select a database integrity report.

TIPS

- You must have already run the report, and the report must be closed.
 - The report must include the OIDs of the objects.
9. Select an object name in the report. The software highlights the object in the graphic view(s) of the model and in the **Workspace Explorer**.

 **NOTE** If you select multiple object names in the report, the software highlights all the objects in the software.

See Also

Workflow for Addressing Database Integrity (on page 28)

Run database administration processes

When you perform administrative tasks on a database, you should not run certain processes concurrently. In other cases, running certain processes concurrently might also affect performance. The table below shows a matrix of these different processes:

	Process 2	Make Model Changes	Bulkload		Backup		Report or Drawing Extraction
Process 1			Bulkload	Sync model with Catalog	Project Management Backup	SQL Backup	
Bulkload	Bulkload	Risk	-	No	No	No	Risk
	Synchronize model with Catalog	Risk	No	-	No	No	Yes
	Regenerate Report DB	Risk	No	No	Slow	Slow	No
DB Maintenance	Database Integrity	Slow	Yes	Slow	Yes	Yes	Slow
	Clean DB Command	Risk	Yes	Yes	Yes	Yes	Yes
	DB Maintenance	No	No	No	No	No	No
	Check Fragmentation	Yes	Yes	Yes	No	No	Yes
Backup	Project Management Backup	Yes	No	No	-	Slow	Yes
	SQL Backup	Yes	No	No	Slow	-	Yes
Report & Drawing	Report Extraction	Yes	Yes	Yes	Yes	Yes	Yes
	Drawing Extraction	Yes	Risk	Yes	Yes	Yes	Yes
SPR	SPR Data Creation	Slow	Slow	No	Yes	Yes	Yes
IFC	IFC	Yes	Yes	Yes	Yes	Yes	Yes

Legend

- **Yes** - Processes can be run concurrently with no risks or performance impact.
- **No** - Processes cannot be run concurrently.
- **Risk** - Processes can be run concurrently, but there are risks involved.
- **Slow** - Processes can be run concurrently. However, you will see slower performance while the processes are running.

SECTION 3

CommonApp

This section contains CommonApp database integrity messages.

An object and its related internal objects are in different permission groups

Message

An object and its related internal objects are in different permission groups.

Severity

High.

Detailed Description

The permission group of internal objects must be the same as the permission group of the parent object. For example, Sketch3D and its internal turnpoints must be under the same permission group. Otherwise, you might encounter problems in editing and removing the sketch path. The same applies to structural footings, structural assembly connections, equipment foundations, and equipment that has optional child outputs. The child outputs must be in the same permission group as the parent object.

Possible Cause

Editing an existing object that results in the addition of new objects such as adding a new leg to a sketched path on a handrail, civil trench, or wall. Another example is the addition of the optional grout pad after the initial footing placement. The placement was done using one permission group whereas the edit uses the current default permission group, which might have changed from when the object was initially created.

Possible Impacts

This problem prevents you from deleting or editing objects because you do not have permission to delete the child.

What You Should Do

Run **Clean Database** to set the parent permission group to the children.

Control point does not have a parent

Message

Control point does not have a parent.

Severity

Crucial.

Detailed Description

A control point should have a parent for it to exist. A control point cannot exist by itself without a parent.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

A control point created without a parent is useless and cannot be used further.

What You Should Do

The control point object needs to be removed.

1. Open a session.
2. In order to select the control points that do not have a parent, a combination of filters can be used. Create an object type filter with control point as object type. (Name this filter **Filter1**.)
3. Create a properties filter with the following parameters. (Name this filter **Filter2**.)
 - In the **Object type used as the basis for property identification** box, select **Control points**.
 - In the **Relationship** box, select **Object to Control Point**.
 - In the **Related object** box, select **Equipment**.
 - In the **Display properties in this category** box, select **Standard**.
 - Select **Approval Status** as the property.
 - Set **Approval Status = Working**.
 - Set **Approval Status <> Working** in the second row of the grid.
 - Select the **Match Any** radio button.
4. Create a Compound Filter with the following combination: **Filter1 AND Not Filter2**. Name the compound filter **Comp1**.
5. Use the **Select by Filter** command with the newly created **Comp1** to select all control points that do not have a parent.
6. Delete all of the control points that do not have a parent.

Hierarchy filter with missing Adapter ProglId

Message

Hierarchy filter with missing Adapter ProglId.

Severity

High.

Detailed Description

There is a hierarchy filter with a missing Adapter ProglId. This Hierarchy filter object will be repaired if possible when you run the **Clean Database** command.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

The Filter object becomes orphaned.

What You Should Do

Run the **Clean Database** command.

Invalid number of related objects

Message

Invalid number of related objects.

Severity

High.

Detailed Description

This error is currently associated with Sketch3d objects. As of now, we know that a Sketch3d object cannot be standalone. It must have a relation to some other entity (other than its internal entities). However, due to incorrect propagations in the data model, the Sketch3d entity may remain in the data model, whereas, the outer object may get deleted. The script detects this error and logs it with the above error message.

Possible Cause

Data model propagation errors in an earlier version.

Possible Impacts

The Sketch object becomes orphaned and remains in the database.

What You Should Do

Object needs to be removed. The removal procedure needs to be determined.

LineFeature doesn't have minimum number of TurnPoints

Message

LineFeature doesn't have minimum number of TurnPoints.

Severity

High.

Detailed Description

LineFeature does not have the minimum number of TurnPoints. The line feature should have at least two turn points. This object stores and manages data for connectivity between two or more points in sketch. The LineFeature object represents a line or arc connecting some TurnPoints.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

Line Feature cannot be modified. It also cannot be used for other sketch constructions.

What You Should Do

The Line Feature object needs to be removed.

1. Open the session.
2. Select the resultant object in the **Workspace Explorer**. This object may not be visible in the graphic view.
3. Delete the object.

Missing object entry in related table

Message

Missing object entry in related table.

Severity

High.

Detailed Description

There is a missing object entry in related table. This object will be repaired when you execute **Clean Database** command.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

The related object becomes orphaned.

What You Should Do

Run **Clean Database** command.

Name rule AE is not associated to a named item

Message

Name rule AE is not associated to a named item.

Severity

High.

Detailed Description

This error is reported when there is no relation between the NameRuleAE and Named Item, or if the relationship between the NameRuleAE and NameRuleHolder is missing.

Possible Cause

Could be a coding error or a case of missing assoc notification.

Possible Impacts

- Should not have any impact apart from zombie objects in the database.

What You Should Do

1. Object needs to be removed. Please send us the detailed error information for further analysis.
2. If some information is missing and the database has integrity problems, contact Intergraph Process, Power & Marine Support.

Note does not have a parent

Message

Note does not have a parent object.

Severity

High.

Detailed Description

The note is not associated to any Parent Object.

Possible Cause

In the Model database, all the notes should be related to a parent object.

Possible Impacts

- Should not have any impact.

What You Should Do

You should delete the notes from the Model database.

If some information is missing and the database has integrity problems, contact Intergraph Process, Power & Marine Support.

Only one as-built object allowed in a model

Message

Only one as-built object allowed in a model.

Severity

Crucial.

Detailed Description

One and only one WBSProject can be defined as As-Built in a model. Multiple projects cannot be defined as As-Built.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

Only one WBSProject can be defined as As-Built in a model. If multiple projects are defined as As-Built, then it is an error condition.

What You Should Do

All the WBS projects that are defined as As-Built should be removed.

1. Open a session with the defective database.
2. Create a properties filter with the following parameters. For example, name it Filter1.
 - Under **Object type used as the basis for the property identification**, select **WBSProjects**.
 - In the **Relationship** box, select **Direct property of object type**.
 - In the **Display properties in this category** box, select **Standard**.
 - Select **Project Purpose** as the property.
 - Set the operator to **=**.
 - Set the value to **As-Built**.
 - Select the **Match All** radio button.
3. Use the **Select by Filter** command with the newly created Filter1 to select all Projects that have an As_Built Purpose.
4. Delete all of the projects.

PointFeature has no TurnPoint associated with it

Message

PointFeature has no TurnPoint associated with it.

Severity

High.

Detailed Description

PointFeature has no TurnPoint. Point Feature is defined for each TurnPoint. The point features are None, Bend, Cornice, and Chamfer.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

Modification of the PointFeature object is not possible.

What You Should Do

Object needs to be removed. Removal procedure needs to be determined.

Sketch3d is not associated to SketchByPointsAE

Message

Sketch3d is not associated to SketchByPointsAE.

Severity

High.

Detailed Description

Sketch3d is not associated to SketchByPointsAE.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

The resultant object may not be visible in the graphic view. Modification of the resultant object is not possible.

What You Should Do

Object needs to be removed.

1. Open the model.
2. Select the resultant object in the **Workspace Explorer**.
3. Delete the object.

Sketch3d Point is not associated to a TurnPoint

Message

Sketch3d Point is not associated to a TurnPoint.

Severity

High.

Detailed Description

Sketch3d Point is not associated to a TurnPoint. The TurnPoint is used for storing/retrieving the index of a point associated with it and the flag indicating whether the point is an assoc point or not. This object may again be connected with a PointFeature object and/or a set of LineFeature objects.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

The resultant object may not be visible in the graphic view. Modification of the resultant object is not possible.

What You Should Do

Object needs to be removed.

1. Open the model.
2. Select the resultant object in the **Workspace Explorer**.
3. Delete the object.

SketchByPointsAE is not associated to Sketch3d

Message

SketchByPointsAE is not associated to Sketch3d.

Severity

High.

Detailed Description

SketchByPointsAE is not associated to Sketch3d.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

Object becomes orphaned.

What You Should Do

Object needs to be removed. The removal procedure needs to be determined.

SketchByPointsAE requires minimum two input points

Message

SketchByPointsAE requires minimum two input points.

Severity

High.

Detailed Description

SketchByPointsAE does not have minimum required input points.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

The resultant object may not be visible in the graphic view. Modification of the resultant object is not possible.

What You Should Do

Object needs to be removed.

1. Open the model.
2. Select the resultant object in the **Workspace Explorer**.
3. Delete the object.

TurnPoint can have one or two LineFeatures associated with it

Message

TurnPoint can have one or two LineFeatures associated with it.

Severity

High.

Detailed Description

TurnPoint has an improper number of LineFeatures. A Line Feature object represents a line or arc connecting some TurnPoints.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

The resultant object may not be visible in the graphic view. Modification of the resultant object is not possible.

What You Should Do

Object needs to be removed.

1. Open the model.
2. Select the resultant object in the **Workspace Explorer**.
3. Delete the object.

TurnPoint is not associated to a Point

Message

TurnPoint is not associated to a Point.

Severity

High.

Detailed Description

TurnPoint is not associated to a Point. This TurnPoint object is used for storing/retrieving the index of point associated with it and the flag indicating whether the point is an assoc point or not. This object is again connected with a Point Feature object and/or a set of Line Feature objects.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

The TurnPoint object becomes orphaned.

What You Should Do

Object needs to be removed. The removal procedure needs to be determined.

WBS Item does not have a parent

Message

WBS Item does not have a parent.

Severity

Crucial.

Detailed Description

WBS Item does not have a parent. A WBS Item cannot exist without a parent.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

A WBS Item without a parent cannot exist, and it cannot be used for any further processing.

What You Should Do

The WBS Item that exists without a parent should be deleted.

1. Open a session.
2. In order to select the WBS Items that do not have a parent, a combination of filters can be used. Create an object type filter with WBSItems as object type. (Name this filter **Filter1**.)
3. Create a properties filter with the following parameters. (Name this filter **Filter2**.)
 - In the **Object type used as the basis for property identification** box, select **WBSItems**.
 - In the **Relationship** box, select **WBSHierarchy - WBSParent**.
 - In the **Related object** box, select **WBSProjects**.
 - In the **Display properties in this category** box, select **Standard**.
 - Select **Project Purpose** as the property.
 - Set the operator to **=**.
 - Set the value to **Project**.
 - Select **Project Purpose <> Project** in the second row of the grid.
 - Select the **Match Any** radio button.
4. Create a Compound Filter with the following combination: **Filter1 AND Not Filter2**. Name this filter **Comp1**.
5. Use the **Select by Filter** command with the newly created **Comp1** to select all WBS Items that do not have a parent.
6. Delete all of the WBS items that do not have a parent.

WBS Project does not have a parent

Message

WBS Project does not have a parent.

Severity

Crucial.

Detailed Description

WBS Project does not have a parent. A WBS project cannot exist without a parent.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

A WBS project without a parent cannot exist, and it cannot be used for any further processing.

What You Should Do

The WBS Project objects need to be removed.

1. Open a session.
2. Create a filter to bring in all WBS Projects. Use the **Work Breakdown Structure** tab on the filter dialog boxes.
3. Select each project in the **Workspace Explorer** and check if the parent object exists.
4. Delete all the projects that do not have a parent.

SECTION 4

Common Route

This section contains Common Route database integrity messages.

Added port with no object connected

Message

Added port with no object connected.

Severity

Normal.

Detailed Description

The port is not connected to any part.

Possible Cause

Unknown. The cause may be a Permission Group problem where the parts associated with a port (and leaving the port) are deleted.

Possible Impacts

You may not be able to access the port properties. Reports may not have the right information.

What You Should Do

The port must be deleted from the model. Run the **Clean Database** custom command to delete the port.

Attach connection without 2 ports

Message

Attach connection without 2 ports.

Severity

High.

Detailed Description

An attach connection that is not connected to two ports exists.

Possible Cause

Unknown.

Possible Impacts

You might have problems modifying surface-mounted components.

What You Should Do

Run the **Clean Database** custom command to delete this object.

Branch feature not at end of leg

Message

Branch feature not at end of leg.

Severity

Crucial.

Detailed Description

A route branch feature should only exist at the end of a leg. In this case a branch feature was found not at the leg's end.

Possible Cause

Previous versions of software incorrectly created this situation.

Possible Impacts

Modification of neighborhood route network may not work correctly.

What You Should Do

Run DBI clean to delete the unneeded relations.

Branch Feature with no corresponding Along Leg Feature

Message

Branch Feature with no corresponding Along Leg Feature.

Severity

Crucial.

Detailed Description

A Branch feature should always have an Along Leg Feature associated with it, but in this case it happened that the Branch feature was created or left alone without any association to an Along Leg feature.

Possible Cause

Unknown.

Possible Impacts

You will not be able to modify the feature (assuming you had brought the feature into the workspace using object type filters).

What You Should Do

The feature must be deleted from the model. Run the **Clean Database** custom command to delete the feature.

Catalog report or label template is not part of a hierarchy

Message

Catalog report or label template is not part of a hierarchy.

Severity

High.

Detailed Description

The catalog report or label template is not related to a catalog hierarchy parent folder. It is not visible in the catalog browser, and therefore not available.

Possible Cause

- The bulkload process failed to load the hierarchy definition for this report or label template.
- The hierarchy definition in the bulkload sheet for this report or label template is incorrectly defined.
- The hierarchy has not been defined for this report or label template.

Possible Impacts

The catalog report or label template is not available.

What You Should Do

Fix the bulkload spreadsheet on the hierarchy tab. Verify that the names used in the hierarchy definition match the names of the report, the label template, and the folders.

Connection associated with only one port

Message

Connection associated with only one port.

Severity

High.

Detailed Description

A Route connection always connects two ports (of two different parts).

Possible Cause

Unknown.

Possible Impacts

The Drawings and Reports task will not have the right information.

What You Should Do

The problem will be fixed as soon as the connection is re-computed. To trigger a re-computation, modify one of the adjacent features, or delete the connection so a new connection will be generated.

Connection has relation to Specification

Message

Connection has relation to Specification.

Severity

Crucial.

Detailed Description

There is a relation existing between a Piping Connection object and a specification in the catalog. This relation is obsolete and is no longer needed.

Possible Cause

Using old version of the software which created this relation.

Possible Impacts

Performance can be impacted.

What You Should Do

1. Run the DBI **Clean** command to remove the relations.

Connection Item missing relation to catalog part

Message

Connection item is missing the relation to the catalog part.

Severity

High.

Detailed Description

A piping connection item object (gasket, bolt set, or clamp) in the model is missing the relation to a catalog part.

Possible Cause

Part was deleted from the catalog.

Possible Impacts

Modeling may not be correct because some data, such as the width of the gasket, is not available. Also reports may be missing data.

What You Should Do

Make sure the appropriate part exists in the catalog and run DBI Clean to create the relationship to the part.

Connection item missing relation to the connection object

Message

Connection item missing relation to the connection object.

Severity

High.

Detailed Description

The connection item, such as a weld or a gasket, is not related to any object.

Possible Cause

Unknown.

Possible Impacts

The Drawings and Reports task does not have the correct information about its connection objects.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command.
3. Select the target objects, and then click **Clean Now**.

Connection Item missing relation to the object

Message

Connection Item missing relation to the object.

Severity

High.

Detailed Description

The connection item is not related to any connection.

Possible Cause

When a connection item is not in Working status, and the other connected part is deleted, this case may arise.

Possible Impacts

The Drawings and Reports task will not have the right information.

What You Should Do

Use the **Clean Database** custom command to delete such objects.

Connection Items not associated to the owner part

Message

Connection Items not associated to the owner part.

Severity

High.

Detailed Description

All connection items (welds, bolt sets, gaskets) should have an owner part. A weld typically will appear under an owner part in the **Workspace Explorer**. When a connection item does not have an owner part, then it might not be brought into the workspace. One way that we can reach these objects is by navigating from the **Relationships** tab of the **Connection Properties** dialog box. Another way is to define a filter using the object type and then selecting the connection items in the model.

Possible Cause

Sometimes a part occurrence is deleted, and due to permission boundaries, the connection items are left alone. The connection associated to this connection item is placed in the To Do List.

Possible Impacts

A weld shows up underneath the model root. Reports that are generated do not show the proper owner for the connection items (such as a weld). The ownership report of the Connection Items is wrong, especially for ones that are on the boundary of the Pipelines, as there is no owner for this bolt set object.

What You Should Do

Re-compute the associated parts or features to resolve this problem.

1. In the model, select the weld in question.
2. Click **Edit > Properties**.
3. On the **Relationships** tab, select **Connection**.
4. On the **Connection Properties** dialog box, select the parts or features. Any modification made like location changes or changes to nominal piping diameter will cause a re-computation, and the problem will be fixed at that time.

Connection not associated with a port

Message

Connection not associated with a port.

Severity

Crucial.

Detailed Description

A connection should be associated with two ports. In this case, it is not associated with any ports.

Possible Cause

Unknown. This situation is rare.

Possible Impacts

The Drawings and Reports task will not have the right information. The connection is not useful.

What You Should Do

Use the **Clean Database** custom command to delete such objects.

Connection not associated with a run

Message

Connection not associated with a run.

Severity

High.

Detailed Description

A Route connection should always be associated with a run.

Possible Cause

Unknown.

Possible Impacts

The Drawings and Reports task will not have the right information.

What You Should Do

The problem will be fixed as soon as the connection is re-computed. To trigger a re-computation, modify one of the adjacent features, or delete the connection so a new connection will be generated.

Connection not connected to correct parent

Message

Connection not connected to correct parent.

Severity

High.

Detailed Description

A Route connection always connects two ports. The connection is also directly connected to one of the two connected parts. In this case, it is connected to a different part.

Possible Cause

Unknown.

Possible Impacts

The Drawings and Reports task will not have the right information.

What You Should Do

The problem will be fixed as soon as the connection is re-computed. To trigger a re-computation, modify one of the adjacent features, or delete the connection so a new connection will be generated.

Connection not having valid connection size

Message

Connection not having valid connection size.

Severity

High.

Detailed Description

For some types of piping connections, there is a gap between two connected parts. One example is a gap to take into account a weld gasket. In this case, the gap (or size of the connection) will be invalid.

Possible Cause

Unknown.

Possible Impacts

The Drawings and Reports task will not have the right information.

What You Should Do

The problem will be fixed as soon as the connection is re-computed. To trigger a re-computation, modify one of the adjacent features, or delete the connection so a new connection will be generated.

Connection Permission Group/Approval Status not same as connected parts or owner

Message

Connection Permission Group/Approval Status not same as connected parts or owner.

Severity

Crucial.

Detailed Description

The connection's permission group/approval status should be the same as the permission group/approval status of one of the parts that it connects. Or, it should at least be the same as its owner (run or logical distribution connection).

Possible Cause

Unknown.

Possible Impacts

You may not be able to modify or delete the connection.

What You Should Do

Run the **Clean Database** custom command to fix this problem.

Dormant Part associated to the Feature

Message

Dormant Part associated to the Feature.

Severity

Normal.

Detailed Description

The part is connected to a feature that has a dormant relation.

Possible Cause

Unknown.

Possible Impacts

The Drawings and Reports task will not have the right information.

What You Should Do

Use the **Clean Database** custom command to delete such objects.

End/Branch/Turn feature not a Terminating Feature of the leg

Message

End/Branch/Turn feature not a Terminating Feature of the leg.

Severity

Fatal.

Detailed Description

In the route data model, the feature types (End, Branch, and Turn) should be the first and last features of a path leg. If they happen to be in the middle of a path leg, the software, which is not designed to handle such configurations, will have problems. You should report the situation immediately, and provide the workflow that caused it.

Possible Cause

This error arises due to a software problem.

Possible Impacts

Modification behaviors could fail.

What You Should Do

Use the **Clean Database** custom command to delete this particular object in error.

EquipCableNozzle Has Bad Persistent Flag

Message

EquipCableNozzle Has Bad Persistent Flag

Severity

Crucial

Detailed Description

There are issues with the persistent flags for one or more cable equipment nozzles in the model.

Possible Cause

Unknown

Possible Impacts

This error has a minimal effect on the style rules performance.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command.
3. Select the target objects, and then click **Clean Now**.

Feature not associated with a Leg

Message

Feature not associated with a Leg.

Severity

Crucial.

Detailed Description

A feature should always be associated with at least one leg. In this case, the feature is not related to any leg.

Possible Cause

Unknown.

Possible Impacts

You will not be able to modify the feature (assuming you had brought the feature into the workspace using object type filters). Also, the Drawings and Reports task will not have the right information.

What You Should Do

The feature must be deleted from the model. Run the **Clean Database** custom command to delete the feature.

Feature not associated with a run

Message

Feature not associated with a run.

Severity

Crucial.

Detailed Description

All route features must be associated to their parent run objects. If the features are not associated to the run, then they will not be brought into the workspace by normal means. However, you always have the ability to bring them into the workspace using the Object Type property.

Possible Cause

In earlier versions (prior to Version 3.0), selecting a feature and changing the run could result in this error, especially when the run to which the feature is being moved is a read-only run. However, this problem has been identified in the route code and has been fixed. This error should not occur in Version 4.1 or beyond.

Possible Impacts

You are not able to modify the feature (assuming you had brought the feature into the workspace using Object Type filters).

Examples: Moving the feature or changing the type (short code) from GATE to BALL does not work.

What You Should Do

You must select an appropriate parent run.

Example: If the selected feature is a pipe feature, you should select the pipe run to which it should belong.

Feature with branch parent function did not generate part occurrence

Message

Feature with branch parent function did not generate part occurrence.

Severity

High.

Detailed Description

An along leg feature with a branch parent function (with the exception of the Cableway ALF) should generate a component occurrence, and the feature did not generate this occurrence.

Possible Cause

This problem may be due to a missing part in the catalog data, or it may be because of a permission group problem. The Route solver may not have completed all the processing due to other problems.

Possible Impacts

The run is invalid because the feature does not have a component occurrence. This situation may impact Reports.

What You Should Do

The problem will be fixed as soon as the feature is re-computed. To trigger a re-computation, one of the adjacent features can be modified.

Feature with component Function did not generate component occurrence

Message

Feature with component Function did not generate component occurrence.

Severity

High.

Detailed Description

A feature with a component function should generate a component occurrence, and the feature did not generate this occurrence.

Possible Cause

The Route solver may not have completed all the processing due to other problems.

Possible Impacts

The run is invalid because the feature does not have a component occurrence. This may impact Reports.

What You Should Do

This situation can be a side effect of 'close' features having problems (ToDoRecords).

Check the To Do List for nearby features in error, and fix the problems.

Feature with end leg function did not generate component occurrence

Message

Feature with end leg function did not generate component occurrence.

Severity

High.

Detailed Description

A feature with an end leg function should generate a component occurrence, and the feature did not generate this occurrence.

Possible Cause

This problem may be due to a missing part in the catalog data, or it may be because of a permission group problem. The Route solver may not have completed all the processing due to other problems.

Possible Impacts

The run is invalid because the feature does not have a component occurrence. This situation may impact Reports.

What You Should Do

The problem will be fixed as soon as the feature is re-computed. To trigger a re-computation, one of the adjacent features can be modified.

Feature with user specified parts did not generate part occurrence

Message

Feature with user specified parts did not generate part occurrence.

Severity

High.

Detailed Description

A feature with a component function should generate a component occurrence, and the feature did not generate this occurrence.

Possible Cause

This problem may be due to a missing part in the catalog data, or it may be because of a permission group problem. The Route solver may not have completed all the processing due to other problems.

Possible Impacts

The run is invalid because the feature does not have a component occurrence. This situation may impact Reports.

What You Should Do

The problem will be fixed as soon as the feature is re-computed. To trigger a re-computation, one of the adjacent features can be modified.

Feature with zero outer diameter

Message

Feature with zero outer diameter.

Severity

High.

Detailed Description

For piping and conduit, the route software uses the outside diameter of the feature for display purposes. When the value is zero at display time, the software tries to get the same information from the run (the run gets it from the default stock part for the corresponding NPD, NPDUnitType, and so forth).

Possible Cause

The error could be due to a software bug. We have identified various cases where this error was reproducible, and those cases have been fixed.

Possible Impacts

The display might be wrong, as it might use the value obtained from the default stock part (especially if the feature is overridden with a different NPD).

What You Should Do

The following are some suggestions to eliminate this error:

- Check to see if there is a catalog part available for the feature parameters (NPD, specification, and so forth). If the part is not in the catalog, add it to the catalog or choose the appropriate specification, NPD, and NPDUnitType for the feature.
- Select the associated run and modify any attribute value to trigger a re-computation (such as temperature). This re-computation will get rid of this error. After this is done, reset the attribute to its previous state.

Feature without UserSpecifiedPart Relation

Message

Feature without UserSpecifiedPart Relation.

Severity

High.

Detailed Description

All duct path features with parts should have the XUserSpecified relation set on them. The software checks those features for this relation and flags the features (IJRtePathFeat) in error with a High severity and ReCompute action.

Possible Cause

Unknown.

Possible Impacts

You may not be able to modify the duct features. Also, the reports generated may not be correct.

What You Should Do

Run the **Clean Database** custom command to fix this problem.

Inline feature & Branch Feature belong to same leg

Message

Inline feature & Branch Feature belong to same leg.

Severity

Fatal.

Detailed Description

According to the data model, the branch feature leg should be different from the inline features leg. In this case, the branch feature leg and the Inline feature leg are the same.

Possible Cause

Unknown. This situation could be due to a software problem.

Possible Impacts

This problem may result in an erroneous network of legs.

What You Should Do

Use the **Clean Database** custom command to delete such objects.

Intermediate End Feature and Connected Intermediate End Feature generating part

Message

Intermediate End Feature and Connected Intermediate End Feature generating part.

Severity

High.

Detailed Description

According to the design, only one IEF can generate base components/parts. We will allow one feature to generate the base and another to generate the mating parts.

Possible Cause

This problem might occur when the rules followed for part generation fail.

Possible Impacts

The reports generated may not be valid.

What You Should Do

The problem will be fixed as soon as the feature is re-computed. To trigger a re-computation, one of the adjacent features can be modified.

Invalid Zero Length Straight Feature

Message

Invalid zero length straight feature.

Severity

Normal.

Detailed Description

The feature length is zero. This feature probably also generates a pipe part, which may or may not be of the same length. In reality, a straight feature can never be less than the minimum pipe length defined in the catalog data.

Possible Cause

Generally occurs due to a software problem. However, there have been instances when it was determined that the catalog data did not define the "Minimum Pipe length rule," in which case the software would create a "minimum pipe length" between Female & Male Components to take care of incompatible ends.

Possible Impacts

The part should be ignored if found in a drawing or report.

What You Should Do

The following are some suggestions about eliminating this error:

- Check to see if the specification lists the proper minimum pipe length in the "Minimum Pipe Length Rule" (for piping). If the "Minimum pipe length" rule does not specify a valid minimum length, set the valid minimum pipe length value in the catalog.
- Select the associated run and modify any attribute value to trigger a re-computation (such as temperature). This re-computation will get rid of this error. After this is done, reset the attribute value back to its previous state.

Leg with features belonging to multiple runs

Message

Leg with features belonging to multiple runs

Severity

High.

Detailed Description

In the Route data model, all features of a leg must belong to the same run. In this case, a leg was found which has features in two or more runs.

Possible Cause

Unknown.

Possible Impacts

Such networks cause problems in Model Data Reuse copy where copy will be done at the system level such as runs. In this case, legs with two runs will be copied twice and each feature will be associated to two legs. Route semantics does not expect this situation and causes an abort of these commits.

What You Should Do

Run DBI Clean which will move all the features into a single run.

Leg with no associated features

Message

Leg with no associated features.

Severity

Normal.

Detailed Description

A Route leg should always have features.

Possible Cause

Unknown.

Possible Impacts

No impact. A Route leg is not a first class Business Object, so this error cannot affect anything.

What You Should Do

Run the **Clean Database** custom command to delete the legs.

Material Control Data object with different PG than owner part

Message

Material Control Data object with different PG than owner part.

Severity

High.

Detailed Description

The material control data and its associate part occurrence have different permission groups.

Possible Cause

For on-the-fly items, the catalog part or the material control data object are copied into the model with different parent groups.

Possible Impacts

If you are working with a parent permission group that does not have access to the child support object, you may not be able to modify the child.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command.
3. Select the target objects, and then click **Clean Now**.

Missing relationship for Correlated object. Correlation properties will not be available.

Message

Missing relationship for Correlated object. Correlation properties will not be available.

Severity

High.

Detailed Description

The identified object (Pipeline, Area System, or Unit System) does not participate in a required EFWCorrelationToSP3D relationship.

Possible Cause

The model was created with a software version earlier than V7, and migration failed to create the EFWCorrelationToSP3D relationship correctly.

Possible Impacts

Correlation properties are not available.

What You Should Do

Perform the Database Integrity repair process.

Need to remove the RelConnectionAndPartOcc between the cableocc and the Distribconn

Message

Need to remove the RelConnectionAndPartOcc between the cableocc and the Distribconn

Severity

Crucial.

Detailed Description

The Route part occurrence object is missing one or more relations to part objects.

Possible Cause

Unknown.

Possible Impacts

Possible problems in modeling and in the placement of hangers.

What You Should Do

Run DBI clean to create the missing relations.

No connection items generated by the connection

Message

No connection items generated by the connection.

Severity

Normal.

Detailed Description

This error message affects Piping only as only Piping has associated connection items.

Depending on the type of connection, some connection items such as welds, gaskets, or bolts should be associated with the connection. No To Do Record is associated with the connection or the connected parts/features.

Possible Cause

This problem often occurs when one of the close features has an associated To Do Record. Because of this problem, the semantic that gets the connection items has not been triggered.

Possible Impacts

The Drawings and Reports task will not have the right information.

What You Should Do

Check if some adjacent features or parts have associated errors (using the To Do List). If there are associated errors, fix the problems.

Object has invalid relations

Message

Object has invalid relations.

Severity

Crucial.

Detailed Description

The object has an invalid relation.

Possible Cause

Unknown.

Possible Impacts

The object cannot be recomputed properly, and it can never be deleted.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command, and select the objects in error.

Objects with invalid cross sectional parameters

Message

Objects with invalid cross sectional parameters.

Severity

High.

Detailed Description

Cableway and duct ends, turns, branch features, and duct ports should have valid cross section parameters. An example is when the width is less than the distance tolerance.

Possible Cause

The software does not allow the creation of these features. This might be because of some objects modified during migration of the database.

Possible Impacts

The network is erroneous, and the objects may not display properly.

What You Should Do

The problem will be fixed as soon as the feature is re-computed. To trigger a re-computation, one of the adjacent features can be modified.

Parent Connection is generating Non-BoltSet Connection Items

Message

Parent Connection is generating Non-BoltSet Connection Items.

Severity

High.

Detailed Description

A Parent Connection, generally created between two flanges can only generate a "BoltSet" object. If it generates other connection items, then this problem occurs.

Possible Cause

Unknown. This situation may be due to a software problem.

Possible Impacts

The Drawings and Reports task will not have the right information.

What You Should Do

The problem will be fixed as soon as the connection is re-computed. To trigger a re-computation, modify one of the adjacent features can be modified, or delete the connection so a new connection will be generated.

Part and Feature data is not matching

Message

Part and Feature data does not match.

Severity

High.

Detailed Description

The value of the Type property of the Piping feature does not match the value of the Type property of the related base part.

Possible Cause

An error in an earlier version of Smart 3D software did not set the part's property correctly.

Possible Impacts

Reports generated using the Type property of the part will be incorrect.

What You Should Do

Run DBI clean to correct the value of the part.

Part not associated with a feature

Message

Part not associated with a feature.

Severity

Crucial.

Detailed Description

A Route Part has lost its relationship to its run.

Possible Cause

Unknown.

Possible Impacts

In certain cases, this error may prevent some modifications of the run.

What You Should Do

The part should be deleted.

Part not associated with a run

Message

Part not associated with a run.

Severity

High.

Detailed Description

A Route Part has lost its relationship to its run.

Possible Cause

Unknown.

Possible Impacts

The Drawings and Reports task and filters will not have the right information.

What You Should Do

The problem will be fixed as soon as the feature that has generated the part is re-computed. Note that if the part has also lost its relationship to the feature, then the part should be deleted (this case is reported separately).

PipeSurfaceMount Feature without Attach Connection

Message

PipeSurfaceMount Feature without Attach Connection.

Severity

High.

Detailed Description

A pipe surface-mounted feature exists without an attach connection.

Possible Cause

Unknown.

Possible Impacts

You may not be able to modify the surface-mounted feature. Also, the reports generated may not be correct.

What You Should Do

Run the **Clean Database** custom command to fix this problem.

Ports with no association to Parts

Message

Ports with no association to Parts.

Severity

Normal.

Detailed Description

A port is not connected to any part.

Possible Cause

Sometimes a part occurrence is deleted, but due to permission boundaries, the ports are still left.

Possible Impacts

The reports generated may be incorrect.

What You Should Do

The port must be deleted from the model. Run the **Clean Database** custom command to delete the port.

Route part missing relation with ports

Message

Route part missing relation with ports.

Severity

High.

Detailed Description

The route part occurrence object is missing one or more relations to part objects.

Possible Cause

Unknown

Possible Impacts

Possible problems in modeling and in the placement of hangers.

What You Should Do

Run DBI clean to create the missing relations.

Route part occurrence with missing relation to Catalog part

Message

Route part occurrence with missing relation to Catalog part

Severity

High.

Detailed Description

The route part occurrence in the model does not have the required relation to the part definition in the Catalog.

Possible Cause

Part object is missing from the Catalog.

Possible Impacts

Display and modification of the affected feature will be limited until the situation is corrected. You will not be able to generate Isometric drawings if this relation is missing.

What You Should Do

Make sure the Catalog is correct, and then run DBI Clean, which will create the needed relation.

Route part occurrence with missing relation to Material Control Data

Message

Route part occurrence is missing relation to the Material Control Data.

Severity

High.

Detailed Description

Beginning with Version 2009 (8.0), all piping part occurrence objects must have a relation to the Material Control Data object in the Catalog. This object is missing that relation.

Possible Cause

1. Material Control Data object is missing from the Catalog.
2. Part object is missing from the Catalog.

Possible Impacts

You will not be able to generate Isometric drawings if this relation is missing.

What You Should Do

Make sure the Catalog is correct, and then run DBI Clean to create the needed relation.

Route part occurrence with wrong made relation name

Message

Route part occurrence with wrong made relation name.

Severity

High.

Detailed Description

The relationship between the part occurrence and the catalog part is not using a name proxy (the name of the part in catalog), but instead is using its OID.

Possible Cause

A possible cause was identified and fixed in 4.0.24.

Possible Impacts

The Drawings and Reports task will not have the right information.

Also, if the catalog part is bulk loaded again, the relationship will be lost.

What You Should Do

The part occurrence should be replaced. An easy way to do this is to select the feature that generated the part occurrence, modify it so another part occurrence will be placed, and change it back.

Route part occurrence with wrong permission group or approval status

Message

Route part occurrence with wrong permission group or approval status.

Severity

High.

Detailed Description

All the route part occurrences in the database should belong to the same Permission Group or Approval Status of the associated features. The software attempts to synchronize them such that these objects are in the same Permission Group or Approval Status. When they are not in same Permission Group or Approval Status, it can break the software and un-necessary connections get created, causing confusion.

Possible Cause

In a particular workflow, the software was not handling this situation correctly, hence introducing this problem. This problem has been identified and fixed in the Version 4.1 SP3 version.

Possible Impacts

You might not be able to delete the features/runs.

Two part occurrences that are adjacent to each other might not have connections between them. Hence they may not have proper connection items (such as welds, and so on) in some cases.

What You Should Do

The software has been modified to automatically detect this situation and to recover from it. The next time the object is subject to modification, the problem is fixed correctly, provided the person who modifies the object has permission to all necessary objects (parts and features). An example is when you change one or more temperatures to cause a re-computation in the software. This re-computation fixes the problem automatically.

If, in the above example, the problem does not resolve itself, you must manually fix the objects by modifying the Permission Group or Approval Status of the objects.

Run with no feature that has an entry in the Spatial Index table (Range)

Message

Run with no feature that has an entry in the Spatial Index table (Range).

Severity

Normal.

Detailed Description

A run that has no feature should not have a range.

Possible Cause

A problem existed in the code in V4.0.x that could lead to this condition. The problem was fixed in 4.1.x, so this problem should only show up on V4.0 migrated models.

Possible Impacts

The run has an invalid range, so operations based on ranges could be affected (for example, queries or fitting windows).

What You Should Do

The problem will be fixed as soon the run is recomputed.

Run without specification

Message

Run without specification.

Severity

Normal.

Detailed Description

All runs (pipe/duct/conduit/cableway) must have a specification associated to them. Because the specification dictates the part selection (rule defined), it is very important that a run has a relation to a specification.

Possible Cause

After creating runs in the Model database, you may have deleted the specifications in the catalog. Run the **Synchronize Model with Catalog** command in the Project Management task, and then the runs are added to the To Do List.

Possible Impacts

You will not be able to modify such runs. Attempting to modify such runs will result in To Do records. The solver will create To Do records for the run or features based on the type of modification.

What You Should Do

Select the run and choose a new specification for the run. Or, delete the run.

Run without system parent

Message

Run without system parent.

Severity

Crucial.

Detailed Description

A run should always have a parent system (a pipeline).

Possible Cause

Unknown.

Possible Impacts

Any modification of the run will fail.

What You Should Do

Re-assign the run to a new pipeline using a modify operation in the Piping task.

Another alternative is to delete the run.

Straight feature generating a mating part

Message

Straight feature generating a mating part.

Severity

Fatal.

Detailed Description

A straight feature should never generate a mating part.

Possible Cause

Unknown. This situation could be due to a software problem.

Possible Impacts

The Drawings and Reports task will not have the right information.

What You Should Do

The problem will be fixed as soon as the feature is re-computed. To trigger a re-computation, one of the adjacent features can be modified.

Straight feature not generating stock part occurrence

Message

Straight feature not generating stock part occurrence.

Severity

High.

Detailed Description

A straight feature should always generate a stock part occurrence.

Possible Cause

The Route solver may not have completed all the processing due to other problems.

Possible Impacts

The run is invalid because a straight feature does not have a stock part occurrence. This situation may impact Reports.

What You Should Do

This situation can be a side effect of 'close' features having problems (ToDoRecords).

Check the To Do List for nearby features in error, and fix the problems.

SurfaceMount Feature not connected to Inline Feature

Message

SurfaceMount Feature not connected to Inline Feature.

Severity

High.

Detailed Description

A surface-mounted feature is not connected to an inline feature.

Possible Cause

Unknown.

Possible Impacts

You may not be able to modify the surface-mounted feature. Also, the reports generated may not be correct.

What You Should Do

Run the **Clean Database** custom command to delete the problem object.

Tap Feature with no association to Tapped Feature

Message

Tap Feature with no association to Tapped Feature.

Severity

Normal.

Detailed Description

A tap feature should always be associated with a tapped feature.

Possible Cause

Unknown. In a delete scenario, the tapped feature might have been deleted, leaving only a tap feature.

Possible Impacts

You may not be able to modify the tap feature. Also, the reports generated may not be correct.

What You Should Do

Use the **Clean Database** custom command to delete such objects.

Turn Feature Angle is very small

Message

Turn Feature Angle is very small.

Severity

Normal.

Detailed Description

The turn feature has a very small angle (less than 0.1 degree).

Possible Cause

This problem may be caused while you are routing, for example, when directly keying in coordinates, or when snapping nozzles that are not exactly aligned. Another case is when the Route solver finds other problems that prevent processing to fix the topology.

Possible Impacts

Modifying runs with very small turns can have unpredictable results.

What You Should Do

Select the turn feature and set the angle to 0.

Turn feature missing primary leg association

Message

Turn feature missing primary leg association.

Severity

Fatal.

Detailed Description

A turn feature will always be associated to two legs. One leg will be associated to the turn feature as the primary leg. In this case, this primary leg relation is not set.

Possible Cause

This situation might occur because of a software problem.

Possible Impacts

You may not be able to access the turn feature properties. This turn feature may have to be deleted.

What You Should Do

Use the **Clean Database** custom command to delete such objects.

Turn Feature not associated to two legs

Message

Turn Feature not associated to two legs.

Severity

Crucial.

Detailed Description

A turn feature must have two associated legs for the software to work properly. For example, the bend angle of the turn feature is computed using these two legs.

Possible Cause

Unknown. This problem may have arisen during a delete operation, when the network is routed using different permission groups.

Possible Impacts

You may not be able to access the turn feature properties. The turn feature may have to be deleted.

What You Should Do

Use the **Clean Database** custom command to delete such objects.

SECTION 5

Common Space

This section contains Common Space database integrity messages.

Active Entity has no Space Geometry associated with it

Message

Active Entity has no Space Geometry associated with it.

Severity

High.

Detailed Description

Active Entity has no Space Geometry associated with it. The AE holds the reference (through a relation) about the inputs for construction. Because the AE has become orphaned, this object is not selectable or displayable in a graphic view or in the **Workspace Explorer**.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

No impact. Orphaned object remains in the database.

What You Should Do

Object should be deleted. To delete the object, run the **Clean Database** custom command.

Hierarchical Loop Detected

Message

Hierarchical Loop Detected.

Severity

High.

Detailed Description

Space and Space Child objects are connected through the Space Hierarchy relation. The hierarchy is such that all the objects are connected to the project root. In a healthy database, no loop exists in the hierarchy. However, in this case, the database integrity script has detected a space hierarchical loop in the Model database for the space objects.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

The objects may not display in the **Workspace Explorer** and graphic view, as the object is not connected to the project root.

What You Should Do

Run the **Clean Database** custom command to break the loop. This command will set the project root as the parent to these objects.

Space Association Active Entity has no Graphic Object

Message

Space Association Active Entity has no Graphic Object.

Severity

High.

Detailed Description

Space Association Active Entity has no Graphic Object. The Active Entity object will be created when a graphic object is connected with a Space object. This object stores the transformation matrix of the graphic object. The matrix will be used for the transformation of the associated space object.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

The space cannot be used for further association.

What You Should Do

Removal of the space attached to the AE removes the AE. You can delete the object by running the **Clean Database** custom command.

Space Association Active Entity has no Space Entity associated to the Graphic Object

Message

Space Association Active Entity has no Space Entity associated to the Graphic Object.

Severity

High.

Detailed Description

Space Association Active Entity has no Space Entity associated to the Graphic Object. The Active Entity object will be created when a graphic object is connected with a Space object. This object stores the transformation matrix of the graphic object. The matrix will be used for the transformation of the associated space object.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

No impact.

What You Should Do

Removal of the graphic entity removes the AE. You can delete the object by running the **Clean Database** custom command.

Space Boolean Operator does not have a Space Geometry

Message

Space Boolean Operator does not have a Space Geometry.

Severity

High.

Detailed Description

Space Boolean Operator does not have Space Geometry. The Space Geometry holds the graphic representation of the space object. It forwards all the display-related query interfaces to graphic representation.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

This object will not be visible in the graphic view. Modification of the resultant space will not be possible.

What You Should Do

The resultant volume can be deleted after selecting it in the **Workspace Explorer**. Or, you can delete the object by running the **Clean Database** custom command.

Space Boolean Operator is not connected to Space By Boolean Active Entity

Message

Space Boolean Operator is not connected to Space By Boolean Active Entity.

Severity

High.

Detailed Description

Space Boolean Operator is not connected to Space By Boolean Active Entity. SpaceByBoolAE is responsible for holding the construction spaces.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

SpaceBoolOperator object becomes orphaned.

What You Should Do

The object should be deleted. To delete the object, run the **Clean Database** custom command.

Space By Boolean Active Entity is not connected to Space Boolean Operator

Message

Space By Boolean Active Entity is not connected to Space Boolean Operator.

Severity

High.

Detailed Description

Space By Boolean Active Entity is not connected to a Space Boolean Operator. Space Bool Operator stores the operation type (MergeSpace/BoundBySpace) and index. Space Bool Operator connects the SpaceByBooleanAE and SpaceGeometry.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Modification of the resultant volume is not possible.

What You Should Do

The resultant volume can be deleted after selecting it in the **Workspace Explorer**. Or, you can delete the object by running the **Clean Database** custom command.

Space By Path Active Entity does not have Path

Message

Space By Path Active Entity does not have Path.

Severity

High.

Detailed Description

Space By Path Active Entity does not have a Path. Path is the Sketch3D path and is one of the inputs to the SpaceByPathAE for placing a volume along a path.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Editing of the path is not possible.

What You Should Do

In the **Workspace Explorer**, the corresponding space object can be selected, and you can assign a new path to the object using the SmartSketch locate service.

1. Open a session.
2. Select the resultant object. Selection can be done either in the **Workspace Explorer** or in a graphic view. Selection of the object opens the corresponding ribbon for modification.
3. Click **Path**, and give a new path to the object using the SmartSketch service.

Space By Path Active Entity has no CrossSection

Message

Space By Path Active Entity has no CrossSection.

Severity

High.

Detailed Description

Space By Path Active Entity does not have a Cross Section. Cross Section is one of the inputs to the SpaceByPathAE to place a volume along a path. Cross Section will be one of two types: 1) a Visual Basic symbol with parameters controlled from the catalog, or 2) Sketch 3D, controlled using the Profile Sketch.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Modification of the cross section attributes (like dimensions) is not possible.

What You Should Do

In the **Workspace Explorer**, the corresponding space object can be selected, and you can assign a new cross section type to the object on the modification ribbon.

1. Open a session.
2. Select the resultant space object. Selection can be done either in the **Workspace Explorer** or in a graphic view. Selection of the object opens the corresponding ribbon for modification.
3. On the ribbon, in the **Cross-Section** box, select a new cross section to assign to the object.

Space By Plane and Offset Active Entity does not have the Fence input Points

Message

Space By Plane and Offset Active Entity does not have the Fence input Points.

Severity

High.

Detailed Description

A Space By Plane and Offset Active Entity does not have Fence input Points.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Modification is not possible.

What You Should Do

The resultant volume can be selected in the **Workspace Explorer** and deleted. Or, you can delete the object by running the **Clean Database** custom command.

Space By Plane and Offset Active Entity does not have the Reference Plane

Message

Space By Plane and Offset Active Entity does not have the Reference Plane.

Severity

High.

Detailed Description

A Space By Plane and Offset Active Entity does not have a Reference Plane.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Modification is not possible.

What You Should Do

The resultant volume can be selected in the **Workspace Explorer** and deleted. Or, you can delete the object by running the **Clean Database** custom command.

Space By Points Active Entity has no input Points

Message

Space By Points Active Entity has no input Points.

Severity

High.

Detailed Description

Space By Points Active Entity has no input Points.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Modification of the placement points is not possible.

What You Should Do

The corresponding space object must be deleted.

1. Open a session.
2. Select the object in the **Workspace Explorer** and delete the resultant object.

 **NOTE** You can also run the **Clean Database** custom command to delete these objects.

Space By Primitive Active Entity has no Geometry

Message

Space By Primitive Active Entity has no Geometry.

Severity

High.

Detailed Description

Space By Primitive Active Entity has no Geometry. Geometry is the output from the SpaceByPrimitiveAE.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Object will not be seen in the graphic view. Modification will not be possible.

What You Should Do

The resultant volume can be selected in the **Workspace Explorer** and deleted. Or, you can delete the object by running the **Clean Database** custom command.

Space Entity does not have a Catalog Part

Message

Space Entity does not have a Catalog Part.

Severity

High.

Detailed Description

Space Entity does not have a Catalog Part connected to it.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

No impact. You can add another catalog part to the SpaceEntity and can modify the volume.

What You Should Do

In the **Workspace Explorer**, select the space object, and assign a new catalog part to the object.

1. Open a session.
2. Select the space object. You can select it either in the **Workspace Explorer** or in a graphic view. The modify ribbon appears.
3. On the ribbon, in the **Type** combo box, select a new catalog part to assign to the object.

Space Entity does not have Range

Message

Space Entity does not have Range.

Severity

High.

Detailed Description

Space Entity does not have a Range (no data). No entry has been found in CoreSpatialIndex table.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Geometry will be invalid. There is no other impact.

What You Should Do

1. Open the model.
2. Select the object in the **Workspace Explorer**, and delete the object.
3. Save the session.

Space Entity does not have Space Geometry

Message

Space Entity does not have Space Geometry.

Severity

High.

Detailed Description

Space Entity does not have SpaceGeometry.

The Space Geometry of the Space object contains all the necessary graphical representation information. Due to this error, the space object will not have a graphic representation.

Possible Cause

Coding or data model propagation errors in a previous version.

Possible Impacts

The Space object will not be seen in a graphic view. However, you can select it in the **Workspace Explorer**. The default modification command is activated, because the construction inputs and the geometry are not attached to it.

What You Should Do

1. Open the model.
2. Select the object in the **Workspace Explorer**.
3. Delete the object.

 **NOTE** You can also run the **Clean Database** custom command to delete the object.

Space Geometry has no Active Entity associated with it

Message

Space Geometry has no Active Entity associated with it.

Severity

High.

Detailed Description

Space Geometry has no Active Entity associated with it. This active entity is responsible for getting the inputs for the construction.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Getting the Geometry inputs is not possible. Modification of the entity triggers the default modification command.

What You Should Do

The object may be selected in a graphic view or in the **Workspace Explorer** and deleted. Or, you can run the **Clean Database** custom command to delete the object.

Space Geometry is not connected to any Space Entity

Message

Space Geometry is not connected to any Space Entity.

Severity

High.

Detailed Description

Space Geometry is not connected to any Space Entity.

The Space Entity is necessary to manipulate all the information and data for different types of spaces. The space geometry provides the graphical representation information.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Object becomes orphaned and will not be seen in the **Workspace Explorer** or in a graphic view. No other impact.

What You Should Do

The object should be deleted. To delete the object, run the **Clean Database** custom command.

Space Object does not have Local coordinate system

Message

Space Object does not have Local coordinate system.

Severity

Normal.

Detailed Description

A space object does not have a local coordinate system.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

No impact. You can select the space object from the **Workspace Explorer** or a graphic view.

What You Should Do

Run the **Clean Database** custom command to add the local coordinate system to the space object.

Space object has two parents

Message

Space object has two parents.

Severity

Normal.

Detailed Description

A space object has more than one space parent or design parent.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

No impact. You can see the object under more than one parent in the **Workspace Explorer**.

What You Should Do

Run the **Clean Database** custom command to keep the object under only one parent and to detach the object from additional parents.

SpaceChild does not have a Parent

Message

SpaceChild does not have a Parent.

Severity

High.

Detailed Description

Space Child does not have a Parent.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

Space Child becomes orphaned and can be removed from the **Workspace Explorer** or a graphic view. No other impact.

What You Should Do

Using filters, a space child can be brought to the **Workspace Explorer** and can be deleted or connected to a new parent.

1. Open a session.
2. Click **File > Define Workspace**.
3. Define an appropriate filter based on the object type on the **Object Type** tab. For example, the Space Child object can be brought to the **Workspace Explorer** by defining a filter based on the **Space Folder** object type.
4. In the **Workspace Explorer**, select the child and move it to a new parent or remove the child.

 **NOTE** You can also run the **Clean Database** custom command to delete the object.

SpatialOrientation is not connected to a Space Object or Sketch3d object

Message

SpatialOrientation is not connected to a Space Object or Sketch3d object.

Severity

High.

Detailed Description

SpatialOrientation stores the local orientation of the Space object and has relationships with the SpaceGenericEntity object and Sketch3D object.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

The object becomes orphaned and will not be seen in the **Workspace Explorer** or in a graphic view. No other impact.

What You Should Do

The object should be deleted. To delete the object, run the **Clean Database** custom command.

SECTION 6

Common Structure

This section contains Smart 3D Common Structure database integrity messages.

Bad StructObject Permission Group

Message

Bad StructObject Permission Group

Severity

Crucial

Detailed Description

Structural object has invalid Permission Group.

Possible Cause

This error occurs in previous versions when an operation was added in a different permission group than the structure element permission group.

Possible Impacts

Unknown

What You Should Do

Use the **Clean** command to apply the repair script.

Bad StructPortSelector permission group

Message

Bad StructPortSelector permission group.

Severity

Low.

Detailed Description

The StructPortSelector is in an invalid permission group.

The StructPortSelector is not a first class business object, but it is used by structure business objects in order to expose ports.

This object actually makes the link between a port and its source geometry. As opposed to ports, StructPortSelectors are placed in a permission group.

The problem related to this DB integrity error is that the StructPortSelector is in a permission group that is different from the business object permission group.

Possible Cause

This error appears because in some cases the StructPortSelector is created dynamically and placed by default in the current permission group.

Possible Impacts

Related business objects that expose ports may not be able to be deleted.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command in order to delete the object properly.

Connection without relation to route part

Message

Connection without relation to route part

Severity

Medium.

Detailed Description

Hanger connection objects are basically of two types: Intermediate Connection objects (related to support components) and External connection objects (related to route objects).

The Intermediate Connection objects can be identified by their relations SymbolPortHasConnection_Drive and SymbolPortHasConnection_Driven which are related to support components (reference proxies).

The External Connection objects can be identified by the relations SymbolPortHasConnection_Drive, which is related to a support component, and SymbolPortHasConnection_Driven, which is related to a route object.

The Hanger connection object also has a ConnHasPorts relation to the route object.

This error identifies the External Connection objects that are not related to a route object.

Possible Cause

Some workflows in route environment might have caused the connection to lose its relation to the route object.

Possible Impacts

This is a low impact problem. The Hanger connections would be re-created the next time the Support object is recomputed if they do not exist or if they do not have proper/required relations. With the provision of this DBI script, we are detecting and repairing it at an early stage instead of waiting for that to happen at next re-computation of the Support object.

What You Should Do

1. Take the backup of the model.
2. Open the model.
3. Run the DBI command to detect the Support object, whose hanger connections are not working.
4. Run the DB **Clean** command to repair the problematic Support object, such that it has Hanger connections with proper/required relations.
5. Save the session.

Cutout not in spatial index

Message

Cutout not in spatial index.

Severity

Crucial.

Detailed Description

The opening has no range values.

Possible Cause

This error occurs if the opening is completely outside the object to cut.

Possible Impacts

Volume query does not work on these objects.

What You Should Do

Run the **Repair** command to set the range of the opening to the range of the object to cut.

Error code 25 - unspecified error description

Message

Error code 25 - unspecified error description (Structural business object is missing geometry cache.)

Severity

High (3)

Detailed Description

The structural business object is missing the geometry cache.

Possible Cause

The software encountered an error during the structural business object computation on earlier releases.

Possible Impacts

Slower performance when you define a workspace.

What You Should Do

Use **DBI Repair** to add an entry to the geometry cache for the object. Update the business object so that its geometry is correctly created, or recreate the business object.

Invalid SketchReference Relationship

Message

Invalid SketchReference Relationship

Severity

High

Detailed Description

Relationship to SketchReference is corrupted.

Possible Cause

Unknown

Possible Impacts

Unknown

What You Should Do

Use the **Clean** command to apply the repair script.

Missing Attributes in StructLayer

Message

Missing Attributes in StructLayer

Severity

High

Detailed Description

Structural Layer is missing sub attributes

Possible Cause

Unknown

Possible Impacts

Unknown

What You Should Do

Use the **Clean** command to apply the repair script.

Missing relation between Structcutoutcontour object and openingtype object

Message

Missing relation between Structcutoutcontour object and openingtype object.

Severity

Crucial.

Detailed Description

An Opening has no relation to an OpeningType object which defines some particular properties for the Opening; for example, Cutting Limit.

Possible Cause

Copying/Pasting an Opening.

Possible Impacts

At edit time, an Opening which does not go through all of the structure on which it is applied will not have the correct Cutting Limit value ("Through All" instead of "User Defined").

What You Should Do

Use the **Clean** command to apply the repair script.

Not Accessible Port Selector

Message

Not Accessible Port Selector

Severity

High

Detailed Description

StructPortSelector is not accessible

Possible Cause

Unknown

Possible Impacts

Unknown

What You Should Do

Use the **Clean** command to delete the object.

Object with inappropriate Range

Message

Object with inappropriate Range

Severity

Normal

Detailed Description

Internal Structural Object is in Spatial Index Table.

Possible Cause

Unknown

Possible Impacts

Unknown

What You Should Do

Use the **Clean** command to apply the repair script.

Opening without any OpeningType relation

Message

Opening without any OpeningType relation

Severity

Crucial.

Detailed Description

An Opening has no relation to an OpeningType object which defines some particular properties for the Opening; for example, Cutting Limit.

Possible Cause

Copying/Pasting an Opening.

Possible Impacts

At edit time, an Opening which does not go through all of the structure on which it is applied will not have the correct Cutting Limit value ("Through All" instead of "User Defined").

What You Should Do

Use the **Clean** command to apply the repair script.

Orphaned Basic Geometric Construction

Message

Orphaned Basic Geometric Construction

Severity

High

Detailed Description

A basic Geometric Construction Object is not input of any structure operation. The object can only be deleted using the **Clean Database** test command.

Possible Cause

This error occurs when some seams or profiles by projection are created and deleted in the older version the software.

Possible Impacts

Unknown

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command to delete the object properly.

Orphaned CommonStruct Internal Object

Message

CommonStruct internal object has a missing mandatory relationship.

Severity

Fatal.

Detailed Description

A contour used to bound a slab is not related to any slab in the model.

Possible Cause

This cannot happen during normal operation. Improper use of SQL scripts is the only known workflow that has caused this problem.

Possible Impacts

Can prevent the deletion of related objects.

What You Should Do

1. Open Project Management.
2. Select the model in the tree view.
3. Select **Database > Integrity**.
4. Select the check box next to the **Model** database type, and then click **Run**.

Orphaned Custom Component coming from Sketch2D

Message

Orphaned Custom Component coming from Sketch2D.

Severity

Crucial.

Detailed Description

The Sketch2D Custom Component is no longer related to a wall, opening, or slab boundary. The object can only be deleted using the **Clean Database** test command.

Possible Cause

A problem existed in the placement command using the Sketch2D component. Orphaned objects may result because of this problem.

Possible Impacts

No impact.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command to delete the object properly.

Orphaned Geometric Construction Macro

Message

Orphaned Geometric Construction Macro

Severity

High

Detailed Description

A private Geometric Construction Macro is orphan. The object can only be deleted using the **Clean Database** test command.

Possible Cause

This error occurs when some seams or profiles by projection are created and deleted in the older version of the software.

Possible Impacts

Unknown

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command to delete the object properly.

Orphaned Geometric Construction Set

Message

Orphaned Geometric Construction Set

Severity

High

Detailed Description

A Private Geometric Construction Set is orphan. The object can only be deleted using the **Clean Database** test command.

Possible Cause

This error occurs when some seams or profiles by projection are created and deleted in the older version of the software.

Possible Impacts

Unknown

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command to delete the object properly.

Orphaned Sketch2D Output

Message

Orphaned Sketch2D Output.

Severity

High.

Detailed Description

The Sketch2D Output is not related to a wall, opening, or slab boundary or lost its symbol. The object can only be deleted using the **Clean Database** test command.

Possible Cause

Permission group propagation rules were incorrect, which means that this object can stay orphaned after a 2D sketched structural object is removed

Possible Impacts

No impact.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command to delete the object properly.

Orphaned Sketched Cutout Contour not related to CutoutAE

Message

Orphaned Sketched Cutout Contour not related to CutoutAE.

Severity

High.

Detailed Description

The relationship relating the cutout BO operator to the cutout active entity is missing.

Possible Cause

Unknown.

Possible Impacts

This orphaned cutout no longer cuts the Structural geometry on which it is applied.

What You Should Do

1. Open the model.
2. Delete the opening object.

Orphaned Struct Coordinate System

Message

Orphaned Struct Coordinate System.

Severity

Crucial.

Detailed Description

The Struct Coordinate System is not associated to a first-class business object (FCBO). The object can only be deleted using the **Clean Database** test command.

Possible Cause

Propagation rules are incorrect, which means that this object can remain orphaned after a 2D sketched wall is removed.

Possible Impacts

No impact.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command to delete the object properly.

Orphaned StructLayer

Message

Orphaned StructLayer

Severity

Normal

Detailed Description

Structural Layer does not have requested relation to a Wall.

Possible Cause

Unknown

Possible Impacts

Unknown

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command to delete the object properly.

Permission group of Cutout differs from its parent's permission group

Message

Permission group of Cutout differs from its parent's permission group

Severity

Crucial

Detailed Description

The permission group of the cutout does not match the permission group of the cutout parent.

Possible Cause

An opening has a different parent group from its parent structure.

Possible Impacts

Unknown

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command.
3. Select the target objects, and then click **Clean Now**.

Orphaned Structural connection is not associated to any port (IJPort)

Message

Orphaned Structural connection is not associated to any port (IJPort).

Severity

Low.

Detailed Description

A connection is connected to the ports exposed by the connected business objects.

There must be at least one connected port, so that the connection geometry can be evaluated.

Possible Cause

Unknown.

Possible Impacts

There is a standalone connection in the model with no connected objects.

What You Should Do

1. Open the model.
2. Delete the object.

Sketch2D Custom Component is not related to a Wall, Opening, or Slab boundary

Message

Sketch2D Custom Component is not related to a Wall, Opening, or Slab boundary.

Severity

Crucial.

Detailed Description

The Sketch2D Custom Component is not related to a wall, opening, or slab boundary. The object can be deleted using the **Clean Database** test command.

Possible Cause

In previous versions of the software, some scenarios in **Place** commands may have generated an orphan object.

Possible Impacts

No impact.

What You Should Do

1. Open the model.
2. Run the **Clean Database** command to delete the object.

Sketched Cutout Contour is not associated to any symbol

Message

Sketched Cutout Contour is not associated to any symbol.

Severity

Crucial.

Detailed Description

The relationship (named "FromOutputColltoPutputs") between the 3-D curve defining the cutout shape and the symbol's output collection is missing in the model.

Possible Cause

Unknown.

Possible Impacts

The cutout can no longer be edited or deleted. It must be removed from the model.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command in order to delete the object properly.

Sketched Cutout Contour is not related to SketchWireBodyOutput geometry

Message

Sketched Cutout Contour is not related to SketchWireBodyOutput geometry.

Severity

High.

Detailed Description

The relationship relating the cutout BO operator to the 3-D curve defining its geometry is missing in the model.

Possible Cause

Unknown.

Possible Impacts

The cutout BO can no longer be edited.

What You Should Do

1. Open the model.
2. Delete the opening object.

StandAlone Struct Generation Active Entity has no parent input

Message

StandAlone Struct Generation Active Entity has no parent input.

Severity

Low.

Detailed Description

The role of the generation active entity is to supply the first geometry state of a graphic business object.

If no parent is connected, the graph of geometries cannot be updated.

Possible Cause

Unknown.

Possible Impacts

The related business object display does not correspond to its real geometrical state.

What You Should Do

1. Open the model.
2. Delete the object.

StandAlone Struct Operation Active Entity has no Operand input

Message

StandAlone Struct Operation Active Entity has no Operand input.

Severity

Low.

Detailed Description

An operation has been disconnected from the geometrical graph of a business object. There is no operand geometry connected.

Possible Cause

Unknown.

Possible Impacts

The related business object display does not correspond to its real geometrical state.

What You Should Do

1. Open the model.
2. Delete the object.

StandAlone Struct Port not associated to a StructPortSelector AE

Message

StandAlone Struct Port not associated to a StructPortSelector AE.

Severity

Low.

Detailed Description

A port is not connected to its source object. For instance, a face port has been disconnected from the solid geometry it is extracted from.

The problem is that other objects can depend on this port.

Possible Cause

Unknown

Possible Impacts

Dependent objects may not be able to update their geometry correctly.

What You Should Do

1. Open the model.
2. Delete the object.

StandAlone StructGenericEntity not associated to a Struct Generic Geometry

Message

StandAlone StructGenericEntity not associated to a Struct Generic Geometry.

Severity

Low.

Detailed Description

The object has no related geometry. In other words, the graphic entity has no graphic to display.

Possible Cause

Unknown.

Possible Impacts

The related business object is not visible in the graphic view.

What You Should Do

1. Open the model.
2. Delete the object.

StandAlone StructPortSelector not associated to a StructGenericEntity

Message

StandAlone StructPortSelector not associated to a StructGenericEntity.

Severity

Low.

Detailed Description

The StructPortSelector is not a first class business object, but it is used in the geometries graph of a business object in order to expose its ports.

This object actually makes the link between a port and its source geometry. So the problem is similar to the one represented by the Orphaned Struct Port error.

Possible Cause

Unknown.

Possible Impacts

Dependent objects may not be able to update their geometry correctly.

What You Should Do

1. Open the model.
2. Delete the object.

Struct Coordinate System is not associated to a FCBO

Message

Struct Coordinate System is not associated to a FCBO.

Severity

Crucial.

Detailed Description

The Struct Coordinate System is not associated to a structure object. The object can only be deleted using the **Clean Database** test command.

Possible Cause

In previous versions of the software, propagation rules were incorrect and the orphan object was generated when some structure objects were deleted.

Possible Impacts

No impact.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command to delete the object.

Structural business object is missing geometry cache

Message

Structural business object is missing geometry cache.

Severity

3

Detailed Description

The structural business object is missing the geometry cache.

Possible Cause

The software encountered an error during the structural business object computation on earlier releases.

Possible Impacts

Slower performance when you define a workspace.

What You Should Do

Use **DBI Repair** to add an entry to the geometry cache for the object, update the business object so that its geometry is correctly created, or recreate the business object.

SECTION 7

Compartmentation

This section contains Compartmentation database integrity messages.

Compart By Path Active Entity does not have Path Object

Message

Compart By Path Active Entity does not have Path Object.

Severity

High.

Detailed Description

Compart By Path Active Entity does not have a Path. This Path is the Sketch3D path and is one of the inputs to the CompartByPathAE for placing a volume along a path.

Possible Cause

Coding or data model errors.

Possible Impacts

Editing of the path is not possible.

What You Should Do

In the **Workspace Explorer**, select the corresponding Compartment object and assign a new path to the object using the SmartSketch locate service.

1. Open a session.
2. Select the resultant object in the **Workspace Explorer** or in a graphic view.
3. Click **Path**, and give a new path to the object using the SmartSketch service.

Compart By Path Active Entity has no Sketch CrossSection Object

Message

Compart By Path Active Entity has no Sketch CrossSection Object.

Severity

High.

Detailed Description

Compart By Path Active Entity does not have a Cross Section. The Cross Section is one of the inputs to the CompartByPathAE to place a volume along a path. The Cross Section will be one of two types: 1) a Visual Basic symbol with parameters controlled from the catalog, or 2) Sketch 3D, controlled using the Profile Sketch.

Possible Cause

Coding or data model errors.

Possible Impacts

Modification of the cross section attributes (such as dimensions) is not possible.

What You Should Do

In the **Workspace Explorer**, you can select the corresponding Compart object, and then assign a new cross section type to the object on the modification ribbon.

1. Open a session.
2. Select the object in the **Workspace Explorer** or in a graphic view.
3. On the ribbon, in the **Cross-Section** box, select a new cross section to assign to the object.

Compart By Points Active Entity has no input Points

Message

Compart By Points Active Entity has no input Points.

Severity

High.

Detailed Description

Compart By Points Active Entity has no input Points.

Possible Cause

Coding or data model errors.


Possible Impacts

Modification of the placement points is not possible.

What You Should Do

The corresponding Compartment object must be deleted.

1. Open a session.
2. Select the object in the **Workspace Explorer**, and delete the resultant object.

 **NOTE** Or, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

Compartment By Primitive Active Entity has no Compartment Geometry

Message

Compartment By Primitive Active Entity has no Compartment Geometry.

Severity

High.

Detailed Description

Compartment By Primitive Active Entity has no Compartment Geometry. Compartment Geometry is the output from CompartmentByPrimitiveAE.

Possible Cause

Coding or data model errors.

Possible Impacts

The object is not seen in the graphic view. Modification is not possible.

What You Should Do

You can select the resultant volume in the **Workspace Explorer**, and then delete the volume. Or, you can run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

Compart Entity has no Compart Geometry

Message

Compart Entity has no Compart Geometry.

Severity

High.

Detailed Description

Compart Entity does not have Compart Geometry.

The Compart geometry of the Compartment object has all the graphical representation information. Due to this error, the Compartment object will not have a graphic representation.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

The Compartment object will not be seen in a graphic view. However, it can be selected from the **Workspace Explorer**. However, the default modification command is activated, because the construction inputs and the geometry are not attached to it.

What You Should Do

1. Open the model.
2. Select the object from the **Workspace Explorer**.
3. Delete the object, and save the session.

Compart Geometry has no Compart Entity

Message

Compart Geometry has no Compart Entity.

Severity

High.

Detailed Description

Compart Geometry is not connected to Compart Entity.

The Compart Entity is necessary to manipulate all the information and data for the different types of Compartments. Compart Geometry provides the graphical representation information.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

The object becomes orphaned and will not be seen in the **Workspace Explorer** as well as in the graphic view. No other impact.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

Compartment Geometry has no Geometry

Message

Compartment Geometry has no Geometry.

Severity

High.

Detailed Description

Compartment Geometry does not have Geometry.

The Compartment geometry of the Compartment object has all the graphical representation information.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

The object remains as orphaned in the database.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

Compartment Geometry has no Space CreationAE

Message

Compartment Geometry has no Space CreationAE.

Severity

High.

Detailed Description

The Compart Geometry is not connected to the Space CreationAE. This active entity is responsible for getting the inputs for the construction.

Possible Cause

Coding or data model errors.

Possible Impacts

Getting the Compart Geometry inputs is not possible. Modification of the entity triggers the default modification command.

What You Should Do

You can select the object in a graphic view or in the **Workspace Explorer**, and then delete the object. Or, you can run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

CompartBoolOperator has no Compart Geometry or Geometry

Message

CompartBoolOperator has no Compart Geometry or Geometry.

Severity

High.

Detailed Description

Compart Boolean Operator does not have Compart Geometry. The Compart Geometry holds the graphic representation of the Compartment object. It forwards all the display-related query interfaces to the graphic representation.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

This object is not visible in the graphic view. Modification of the resultant Compartment is not possible.

What You Should Do

You can select the resultant volume in the **Workspace Explorer**, and then delete the volume. Or, you can run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

CompartBoolOperator has no CompartByBooleanAE Object

Message

CompartBoolOperator has no CompartByBooleanAE Object.

Severity

High.

Detailed Description

CompartBoolOperator is not connected with CompartByBooleanAE. CompartByBooleanAE is responsible for holding the construction of Compartments.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

The CompartBoolOperator object becomes orphaned.

What You Should Do

The object should be deleted. To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

CompartBoundByFace has no CompartByBound object

Message

CompartBoundByFace has no CompartByBound object.

Severity

High.

Detailed Description

CompartBoundByFace is not connected to CompartByBound.

Possible Cause

Coding or data model errors.

Possible Impacts

Modification is not possible.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

CompartBoundByFace has no CompartByBound or CompartBySplit

Message

CompartBoundByFace has no CompartByBound or CompartBySplit.

Severity

High.

Detailed Description

The CompartBoundByFace has no CompartByBound or CompartBySplit. The CompartBoundByFace holds the reference (through a relation) about the inputs for construction. Because the CompartBoundByFace has become orphaned, this object is not selectable or displayable in a graphic view or in the **Workspace Explorer**.

Possible Cause

Coding or data model errors.

Possible Impacts

Modification is not possible.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

CompartBoundByFace has no Geometry

Message

CompartBoundByFace has no Geometry.

Severity

High.

Detailed Description

CompartBoundByFace is not associated with Geometry as input.

Possible Cause

Coding or data model errors.

Possible Impacts

Modification is not possible.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

CompartByBooleanAE has no CompartBoolOperator

Message

CompartByBooleanAE has no CompartBoolOperator.

Severity

High.

Detailed Description

The CompartByBoolean Active Entity is not connected to a CompartBoolOperator, which stores the operation type (MergeCompartment/BoundByCompartment) and index. CompartBoolOperator connects the CompartByBooleanAE and CompartGeometry.

Possible Cause

Coding or data model errors.

Possible Impacts

Modification of the resultant volume is not possible.

What You Should Do

You can select the resultant volume in the **Workspace Explorer**, and then delete the volume. Or, you can run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

CompartByBooleanAE has no CompartGeometry Object

Message

CompartByBooleanAE has no CompartGeometry Object.

Severity

High.

Detailed Description

The CompartByBoolean Active Entity has no CompartGeometry associated with it. The CompartByBooleanAE holds the reference (through a relation) about the inputs for construction. Because the CompartByBooleanAE has become orphaned, this object is not selectable or displayable in a graphic view or in the **Workspace Explorer**.

Possible Cause

Coding or data model errors.

Possible Impacts

No impact. The orphaned object remains in the database.

What You Should Do

The object should be deleted. To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

CompartByBound has no Compart Geometry

Message

CompartByBound has no Compart Geometry.

Severity

High.

Detailed Description

CompartByBound has no Compart Geometry associated with it. CompartByBound holds the reference (through a relation) about the inputs for construction. Because CompartByBound has become orphaned, this object is not selectable or displayable in a graphic view or in the **Workspace Explorer**.

Possible Cause

Coding or data model errors.

Possible Impacts

No impact. The orphaned object remains in the database.

What You Should Do

The object should be deleted. To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

CompartByBound has no CompartByBoundFace Object

Message

CompartByBound has no CompartByBoundFace Object.

Severity

High.

Detailed Description

CompartByBound is not connected with a CompartByBoundFace object.

Possible Cause

Coding or data model errors.

Possible Impacts

Modification is not possible.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

CompartByBound is associated with the temporary geometry

Message

CompartByBound is associated with the temporary geometry.

Severity

High.

Detailed Description

The CompartbyBound Active Entity has Geometry associated with it through the relation ByFacesAmbiguity. The CompartbyBound holds the reference (through a relation) about the inputs for construction.

Possible Cause

Coding or data model errors.

Possible Impacts

No impact. The orphaned object remains in the database.

What You Should Do

The object should be deleted. To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

CompartByImport Active Entity has no Compart Geometry

Message

CompartByImport Active Entity has no Compart Geometry.

Severity

High.

Detailed Description

CompartByImport Active Entity has no Compart Geometry associated with it. CompartByImportAE holds the reference (through a relation) about the inputs for construction. Because CompartByImportAE has become orphaned, this object is not selectable or displayable in a graphic view or in the **Workspace Explorer**.

Possible Cause

Coding or data model errors.

Possible Impacts

No impact. The orphaned object remains in the database.

What You Should Do

The object should be deleted. To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

CompartByImportAE has no Point object

Message

CompartByImportAE has no Point object.

Severity

High.

Detailed Description

CompartByImportAE has no input points.

Possible Cause

Coding or data model errors.


Possible Impacts

Modification of the imported Compartment is not possible.

What You Should Do

The corresponding Compartment object must be deleted.

1. Open a session.
2. Select the object in the **Workspace Explorer**, and delete the object.

 **NOTE** Or, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

CompartByPathAE has no Compart Geometry

Message

CompartByPathAE has no Compart Geometry.

Severity

High.

Detailed Description

CompartByPath Active Entity has no Compart Geometry associated with it. CompartByPathAE holds the reference (through a relation) about the inputs for construction. Because CompartByPathAE has become orphaned, this object is not selectable or displayable in a graphic view or in the **Workspace Explorer**.

Possible Cause

Coding or data model errors.

Possible Impacts

No impact. The orphaned object remains in the database.

What You Should Do

The object should be deleted. To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

CompartByPoints has no Compart Geometry object

Message

CompartByPoints has no Compart Geometry object.

Severity

High.

Detailed Description

CompartByPoints Active Entity has no Compart Geometry associated with it. CompartByPointsAE holds the reference (through a relation) about the inputs for construction. Because CompartByPointsAE has become orphaned, this object is not selectable or displayable in a graphic view or in the **Workspace Explorer**.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

No impact. The orphaned object remains in the database.

What You Should Do

The object should be deleted. To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

CompartByPrimitive has no CompartShapeDef object

Message

CompartByPrimitive has no CompartShapeDef object.

Severity

High.

Detailed Description

CompartmentByPrimitive has no CompartmentShapeDef object as input.

Possible Cause

Coding or data model errors.

Possible Impacts

Modification of the object is not possible.

What You Should Do

The object should be deleted. To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

CompartmentGeometry has no CompartmentBySplitAE

Message

CompartmentGeometry has no CompartmentBySplitAE.

Severity

High.

Detailed Description

The CompartmentGeometry has no CompartmentBySplitAE associated with it. The CompartmentGeometry holds the reference (through a relation) about the inputs for construction. Because the CompartmentGeometry has become orphaned, this object is not selectable or displayable in a graphic view or in the **Workspace Explorer**.

Possible Cause

Coding or data model errors.

Possible Impacts

No impact. The orphaned object remains in the database.

What You Should Do

The object should be deleted. To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

CompartSplitAE has no CompartBoundByFace

Message

CompartSplitAE has no CompartBoundByFace.

Severity

High.

Detailed Description

The CompartSplitAE Active Entity has no CompartBoundByFace associated with it. The CompartSplitAE holds the reference (through a relation) about the inputs for construction. Because the CompartSplitAE has become orphaned, this object is not selectable or displayable in a graphic view or in the **Workspace Explorer**.

Possible Cause

Coding or data model errors.

Possible Impacts

No impact. The orphaned object remains in the database.

What You Should Do

The object should be deleted. To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

CompartSplitAE has no CompartGeometry

Message

CompartSplitAE has no CompartGeometry.

Severity

High.

Detailed Description

The CompartSplitAE Active Entity has no CompartGeometry associated with it. The CompartSplitAE holds the reference (through a relation) about the inputs for construction. Because the CompartSplitAE has become orphaned, this object is not selectable or displayable in a graphic view or in the **Workspace Explorer**.

Possible Cause

Coding or data model errors.

Possible Impacts

No impact. The orphaned object remains in the database.

What You Should Do

The object should be deleted. To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

CompartSplitAE is associated with the temporary geometry

Message

CompartSplitAE is associated with the temporary geometry.

Severity

High.

Detailed Description

The CompartSplitAE Active Entity has Geometry associated with it through the relation Computedgeometry. The CompartSplitAE holds the reference (through a relation) about the inputs for construction.

Possible Cause

Coding or data model errors.

Possible Impacts

No impact. The orphaned object remains in the database.

What You Should Do

The object should be deleted. To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

Spatial Load Combination object has no parent(Load Folder) object

Message

Spatial Load Combination object has no parent (Load Folder) object.

Severity

High.

Detailed Description

Spatial Load Combination object is not connected to its Load Folder object.

Possible Cause

Coding or data model errors.

Possible Impacts

Modification is not possible.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

Spatial Load Folder object has no Parent (Configure Project Root or Load Folder) object

Message

Spatial Load Folder object has no Parent (Configure Project Root or Load Folder) object.

Severity

High.

Detailed Description

Load Folder object is not connected to its Configure Project Root or Load Folder object.

Possible Cause

Coding or data model errors.

Possible Impacts

Modification is not possible.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

Spatial Load object has no Compart Geometry object

Message

Spatial Load object has no Compart Geometry object.

Severity

High.

Detailed Description

Spatial Load object is not connected to its Compart Geometry. The geometry for the load object is not available.

Possible Cause

Coding or data model errors.

Possible Impacts

Modification is not possible.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

Spatial Load object has no Parent object

Message

Spatial Load object has no Parent object.

Severity

High.

Detailed Description

Spatial Load object is not connected to its parent object (Load Combination).

Possible Cause

Coding or data model errors.

Possible Impacts

Modification is not possible.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list you can select the objects and delete them.

SECTION 8

Core

This section contains Core database integrity messages.

Catalog report or label template is not part of a hierarchy

Message

Catalog report or label template is not part of a hierarchy.

Severity

High.

Detailed Description

The catalog report or label template is not related to a catalog hierarchy parent folder. It is not visible in the catalog browser, and therefore not available.

Possible Cause

- The bulkload process failed to load the hierarchy definition for this report or label template.
- The hierarchy definition in the bulkload sheet for this report or label template is incorrectly defined.
- The hierarchy has not been defined for this report or label template.

Possible Impacts

The catalog report or label template is not available.

What You Should Do

Fix the bulkload spreadsheet on the hierarchy tab. Verify that the names used in the hierarchy definition match the names of the report, the label template, and the folders.

Connection item missing relation to the connection object

Message

Connection item missing relation to the connection object.

Severity

High.

Detailed Description

The connection item, such as a weld or a gasket, is not related to any object.

Possible Cause

Unknown.

Possible Impacts

The Drawings and Reports task does not have the correct information about its connection objects.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command.
3. Select the target objects, and then click **Clean Now**.

Error on symbol internal object

Message

Error on symbol internal object.

Severity

High if the error occurs in the Model database. Harmless if it occurs in the Catalog.

Detailed Description

This error is an internal error that causes a user object to be inaccessible to any computation or modification.

Possible Cause

In the Model: The error is internal, and development needs to investigate.

In the Catalog: The object is completely inaccessible; therefore, the error is harmless.

Possible Impacts

An object might appear impossible to modify. It might be impossible to get the properties of the object.

What You Should Do

It is recommended to contact Intergraph Process, Power & Marine Support so that the problem can be investigated by a development team.

1. Open the model.
2. Run the **Clean Database** custom command, and select the objects to clean.
3. Click **Clean Now**.

See Also

Clean a Database (on page 34)

Error on symbol relation

Message

Error on symbol relation.

Severity

High if the error occurs in the Model database or in the Catalog.

Detailed Description

This error is an internal error that causes a user object to be inaccessible to any computation or modification.

Possible Cause

A Symbol has failed to reconnect to some internal objects. This situation is most likely to happen if a copy or calculation happened when one of the objects created or referenced by the Symbol is unavailable, leaving the Symbol in an incomplete state. It can also happen when there is a problem with permissions or when a server or DLL is not available.

Possible Impacts

An object might appear impossible to modify. It might be impossible to get the properties of the object.

What You Should Do

It is recommended to contact Intergraph Process, Power & Marine Support so that the problem can be investigated by a development team.

1. Open the model.
2. Run the **Clean Database** custom command, and select all the objects with the error description **Error on symbol relation** and codelist name **COREInvalidDataMessage**.

★ **IMPORTANT** Do NOT run the **Clean Database** custom command to fix other objects, until all the Error on symbol relation objects are fixed. This recommendation is made because some other checks may also detect that the Symbols are in an inconsistent state and suggest deletion.

Error on the To Do list data

Message

Error on the **To Do** list data.

Severity

Normal.

Detailed Description

The **To Do** record on this item is in error, or a **To Do** record is created on an object that should not have a **To Do** record. For example, if there is a **To Do** record on a second-class business object with no other relations, and the object cannot be repaired, it is marked for deletion.

Possible Cause

There is a **To Do** record associated with a second-class business object that does not have any other relations.

Possible Impacts

No impact.

What You Should Do

1. Open the model.
2. Run the **Clean Database** command to delete the object properly.

Generic SmartPlant Error

Message

Generic SmartPlant Error.

Severity

High.

Detailed Description

This error indicates that there is retrieved information that violates some condition, otherwise unspecified, in the data model. Further research or other documentation is required to find the cause of the problem.

Possible Cause

A typical cause of this error is a bug in an upstream application. More rarely, there is an unforeseen workflow that the Smart 3D adapter is not prepared to handle.

Possible Impacts

This will depend on the nature of the data in the model.

What You Should Do

A model integrity script should be run to identify which design basis objects have integrity problems. After these objects are identified, they should be deleted from the model.

Documents must be retrieved again, and correlation must be re-established manually.

Graphic object is an orphan

Message

Graphic object is an orphan.

Severity

Low.

Detailed Description

These objects with range information are not related to anything, and could cause performance issues if a query were made based on range.

Possible Cause

The object was saved in an invalid state.

Possible Impacts

With many orphan geometry objects in the database, performance could be affected for a query based on range.

What You Should Do

It is recommended to contact Intergraph Process, Power & Marine Support so that the problem can be investigated by a development team.

The following procedure will delete such objects:

1. Open the model.
2. Run the **Clean Database** custom command, and select the objects to clean.
3. Click **Clean Now**.

See Also

Clean a Database (on page 34)

Material Control Data object with different PG than owner part

Message

Material Control Data object with different PG than owner part.

Severity

High.

Detailed Description

The material control data and its associate part occurrence have different permission groups.

Possible Cause

For on-the-fly items, the catalog part or the material control data object are copied into the model with different parent groups.

Possible Impacts

If you are working with a parent permission group that does not have access to the child support object, you may not be able to modify the child.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command.
3. Select the target objects, and then click **Clean Now**.

Missing relationship for Correlated object. Correlation properties will not be available.

Message

Missing relationship for Correlated object. Correlation properties will not be available.

Severity

High.

Detailed Description

The identified object (Pipeline, Area System, or Unit System) does not participate in a required EFWCorrelationToSP3D relationship.

Possible Cause

The model was created with a software version earlier than V7, and migration failed to create the EFWCorrelationToSP3D relationship correctly.

Possible Impacts

Correlation properties are not available.

What You Should Do

Perform the Database Integrity repair process.

Object has an unexpected relation

Message

Object has an unexpected relation.

Severity

Low.

Detailed Description

An object has too many relations of the same type with another object. This situation is not supposed to occur.

Possible Cause

Internal error.

Possible Impacts

There may be a very small performance impact when accessing that object.

What You Should Do

Report the problem to Intergraph Process, Power & Marine Support.

Object has invalid geometry

Message

Object has invalid geometry.

Severity

High.

Detailed Description

The object has an invalid range or another invalid geometric property.

Possible Cause

The object was saved in an invalid state.

Possible Impacts

The object will not be able to display itself. In the case of invalid range, it could create a false interference checking report.

What You Should Do

It is recommended to contact Intergraph Process, Power & Marine Support so that the problem can be investigated by a development team.

The following procedure will delete such objects:

1. Open the model.
2. Run the **Clean Database** custom command, and select the objects in error.

Object has invalid relations

Message

Object has invalid relations.

Severity

Crucial.

Detailed Description

The object has an invalid relation.

Possible Cause

Unknown.

Possible Impacts

The object cannot be recomputed properly, and it can never be deleted.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command, and select the objects in error.

Object is not accessible

Message

Object is not accessible.

Severity

Medium.

Detailed Description

The object exists in the database, but it is not possible to bring that object into memory while modeling.

Possible Cause

Internal error. Development needs to investigate.

Possible Impacts

Such phantom objects can appear in reports and therefore lead to false reporting results.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command, and select the objects to clean.
3. Click **Clean Now**.

See Also

Clean a Database (on page 34)

Object naming error

Message

Object naming error.

Severity

Crucial.

Detailed Description

Moniker name of object is incorrect.

Possible Cause

After upgrading a database, the **Database > Integrity** command reports objects with the incorrect moniker name.

Possible Impacts

Cleaning the database modifies the moniker name of the object.

What You Should Do

1. Ask your database administrator to back up the model.
2. Run the **Clean Database** custom command to repair the moniker name of the object.

See Also

Clean a Database (on page 34)

SmartPlant Error : Cardinality violation in design basis relation

Message

SmartPlant Error: Cardinality violation in design basis relation.

Severity

High.

Detailed Description

This error indicates that there is retrieved information that violates cardinality rules.

Possible Cause

A typical cause of this error is a bug in an upstream application. More rarely, there is an unforeseen workflow that the software adapter is not prepared to handle.

Possible Impacts

Comparison between design basis objects and model objects may show that correlation is not possible, or that correlation is not established. Also, partial data loss can occur. The data associated with a shared object may not be associated to a model object.

What You Should Do

A model integrity script should be run to identify which design basis objects have integrity problems. After these objects are identified, they should be deleted from the model.

The documents must be retrieved again, and correlation must be re-established manually. More investigation may be needed to discover where the cardinality is violated and why.

SmartPlant Error : Dead object or correlation wrong

Message

SmartPlant Error: Dead object or correlation wrong.

Severity

High.

Detailed Description

This error indicates that there is retrieved information that is not connected to any drawing or other document.

Possible Cause

A typical cause of this error is a bug in an upstream application. More rarely, there is an unforeseen workflow that the software adapter is not prepared to handle.

Possible Impacts

Database will be bloated with unused data.

What You Should Do

A model integrity script should be run to identify which design basis objects have integrity problems. After these objects are identified, they should be deleted from the model.

SmartPlant Error : Multiple objects with the same name

Message

SmartPlant Error: Multiple objects with the same name.

Severity

High.

Detailed Description

This error indicates that there is retrieved information in which a single name resolves to multiple objects stored in the model.

Possible Cause

A typical cause of this error is a bug in an upstream application. More rarely, there is an unforeseen workflow that the software adapter is not prepared to handle.

Possible Impacts

The most likely impact is that two-dimensional drawings will be incorrectly displayed because multiple objects that represent items in the drawings overlap. The wrong drawing can be displayed. This situation is due to an incorrect correlation between the retrieved design basis object and the model object.

The model object may be correlated to an older duplicate object. There is no way to identify which object is correct, so both duplicate objects must be removed.

What You Should Do

A model integrity script should be run to identify which design basis objects have integrity problems. After these objects are identified, they should be deleted from the model.

In cases where the model object is correlated to an older duplicate object, there is no way to identify which object is correct, so both duplicate objects must be removed. The documents must be retrieved again, and correlation must be re-established manually.

SmartPlant Error : Multiple view files with same name

Message

SmartPlant Error: Multiple view files with same name.

Severity

High.

Detailed Description

This error indicates that there is retrieved information in which duplicate or conflicting information is stored.

Possible Cause

A typical cause of this error is a bug in an upstream application. More rarely, there is an unforeseen workflow that the software adapter is not prepared to handle.

Possible Impacts

The most likely impact is that two-dimensional drawings will be incorrectly displayed because multiple objects that represent items in the drawings overlap. Multiple drawings with the same name are persisted in the model.

There is no way to identify which view is correct, so both must be removed.

What You Should Do

A model integrity script should be run to identify which design basis objects have integrity problems. After these objects are identified, they should be deleted from the model.

The documents must be retrieved again, and correlation must be re-established manually.

SmartPlant Error: Multiple objects with the same name

Message

SmartPlant Error: Multiple objects with the same name.

Severity

Crucial.

Detailed Description

A duplicate generic end data record exists in the database.

Possible Cause

After upgrading a database, the **Database > Integrity** command reports the duplicate records.

Possible Impacts

Cleaning the database deletes the duplicate records.

What You Should Do

1. Ask your database administrator to back up the model.
2. Delete the duplicate object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

See Also

Clean a Database (on page 34)

Symbol has outputs with duplicate names

Message

Symbol has outputs with duplicate names.

Severity

Normal.

Detailed Description

The symbol definition has duplicate output names.

Possible Cause

The symbol definition has outputs that have same name.

Possible Impacts

This is a bug in the Symbol Definition. This can lead to several issues:

- Only one of the outputs can be bound when required.
- Copying and pasting these symbol occurrences results in multiplying of outputs.

What You Should Do

1. Run the Diagnostic Clean Database Issues Report.
2. Find the corresponding record in Diagnostic Clean Database reports, and find the name of the Symbol Definition of the entry in Comments column.
3. An administrator is responsible for analyzing the symbol definition and fixing the duplicate output names.

The object does not exist but another object has a relation to it

Message

The object does not exist but another object has a relation to it.

Severity

Medium.

Detailed Description

An object has been deleted or was never committed in the database, but other objects still have a relation to that object.

Possible Cause

Internal error. Development will investigate.

Possible Impacts

Some objects might not find an expected related object, and some failures can occur. In general, objects are robust enough to deal with such a missing relation.

What You Should Do

You should contact Intergraph Process, Power & Marine Support. The specific instance might be harmless but could also be the cause of other problems.

1. Open the model.
2. Run the **Clean Database** custom command.

The proxy does not have a parent; therefore, it cannot find its source

Message

The proxy does not have a parent; therefore, it cannot find its source.

Severity

Varies from High to Low.

Detailed Description

An internal relation between objects called Proxies has been broken. The proxy does not have a parent; therefore, it cannot find its source.

Sometimes, an island of objects is not accessible. In that case, the error is harmless.

Possible Cause

This error is an internal error and will be investigated by a development team.

Possible Impacts

Some equipment items might not be able to find their parts.

What You Should Do

The following procedure deletes such objects:

1. Open the model.
2. Run the **Clean Database** custom command, and select the objects in error.

The proxy exists but is not connected to any other object

Message

The proxy exists but is not connected to any other object.

Severity

Very Low.

Detailed Description

The proxy exists, but it is not connected to any other object. An internal object is completely inaccessible.

Possible Cause

No known cause. Development will investigate the situation.

Possible Impacts

None, except the object consumes space in the database.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command, and select the objects in error.

Undefined/unknown error on the object

Message

Undefined/unknown error on the object.

Severity

Crucial.

Detailed Description

Undefined/unknown error on the object.

Possible Cause

Object is in error/warning.

Possible Impacts

No impact.

What You Should Do

Execute the specified repair action.

SECTION 9

Drawings and Reports

This section contains Drawings and Reports database integrity messages.

Blob in the DocumentData object table is not valid

Message

Blob in the DocumentData object table is not valid.

Severity

Crucial.

Detailed Description

A file that was blobbed into the database is not usable. This problem can occur due to the deletion of the file after it was un-blobbed to the disk and before blobbing the modified file.

Possible Cause

A workflow that creates this problem has not been identified yet.

Possible Impacts

You may lose some manually placed labels or dimensions, and user graphics modifications.

What You Should Do

Run the **Database > Integrity** command to identify the blobs, and then run the **Clean Database** custom command to remove these objects.

Catalog report or label template is not part of a hierarchy

Message

Catalog report or label template is not part of a hierarchy.

Severity

High.

Detailed Description

The catalog report or label template is not related to a catalog hierarchy parent folder. It is not visible in the catalog browser, and therefore not available.

Possible Cause

- The bulkload process failed to load the hierarchy definition for this report or label template.
- The hierarchy definition in the bulkload sheet for this report or label template is incorrectly defined.
- The hierarchy has not been defined for this report or label template.

Possible Impacts

The catalog report or label template is not available.

What You Should Do

Fix the bulkload spreadsheet on the hierarchy tab. Verify that the names used in the hierarchy definition match the names of the report, the label template, and the folders.

Child Property object's approval status or permission group does not match with the parent Property Object

Message

Child Property object's approval status or permission group does not match with the parent Property Object.

Severity

Critical.

Detailed Description

A Drawing Child Property object's Approval Status or Permission Group does not match that of the parent Property object. By design, a Child Property object must have the same approval status and permission group values as that of the parent property object.

Possible Cause

Unknown.

Possible Impacts

This problem can potentially stop an update or delete operation on the drawing sheet.

What You Should Do

Run the **Clean Database** custom command, select the objects, and click **Clean Now**. This operation sets the correct approval status and permission group values on the Child Property objects.

Connection item missing relation to the connection object

Message

Connection item missing relation to the connection object.

Severity

High.

Detailed Description

The connection item, such as a weld or a gasket, is not related to any object.

Possible Cause

Unknown.

Possible Impacts

The Drawings and Reports task does not have the correct information about its connection objects.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command.
3. Select the target objects, and then click **Clean Now**.

Data document object has no parent object

Message

Data document object has no parent object.

Severity

High.

Detailed Description

This data document is not related to a parent object. Each data document object must be related to a manager object.

Possible Cause

- Data in the model database is incorrect or deleted.
- An error occurs when deleting a drawing component.
- An error occurs when saving a drawing component template.

- An error occurs when creating or deleting a document.
- An error occurs during database migration.

Possible Impacts

This record represents a document or log file in the model database that is no longer accessible. This file wastes storage space until it is deleted.

What You Should Do

Run the **Clean Database** custom command to delete this object.

Document Output Manager has duplicate data documents

Message

Document Output Manager has duplicate data documents.

Severity

Crucial.

Detailed Description

The drawing generation process creates one or more files known as DocumentData objects, such as Update Log, User Graphics, View Monikerization File, and Exclude/Hidden Objects. The DocumentData objects are stored in the model database, related to the Document Output Manager collection, and used (with the exception of Update Log) to regenerate the drawing on successive updates. Each file is given a unique name and is retrieved by name. It is very important that these DocumentData objects remain uniquely named within the Document Output Manager.

Possible Cause

Unknown.

Possible Impacts

When you open, edit, or update an existing drawing, redundantly named DocumentData objects can lead to the incorrect drawing object being chosen. The drawing file retrieved from the database may also not be the latest revision of that file. This situation could lead to incorrect results when viewing or updating the drawing because the contents of that drawing file may not be properly synchronized with the model.

What You Should Do

Run the **Clean Database** custom command, select the objects, and click **Clean Now**. This operation removes the duplicate objects.

Document Output Manager object has duplicate generated document relations

Message

Document Output Manager object has duplicate generated document relations.

Severity

Crucial.

Detailed Description

The Document Output Manager object has redundant relations with the generated document (DocumentData object). There should be one and only one of these relationships.

Possible Cause

This problem is caused by creating the same relation between the same set of objects without verifying the existence of the relation.

Possible Impacts

When you open, edit, or update an existing Drawing, the redundant relationship existence can lead to the incorrect Drawing object being chosen, and the Drawing file retrieved from the database may not be the latest revision of that file. This situation could lead to incorrect results when viewing or updating and then viewing the Drawing because the contents of that Drawing file may not be properly synchronized with the model.

What You Should Do

Run the **Clean Database** custom command, select the objects, and then click **Clean Now**. This operation fixes all the duplicate relations for the object in question.

Document Output Manager object has no parent Sheet or View

Message

Document Output Manager object has no parent sheet or view.

Severity

High.

Detailed Description

This document output manager object is not related to a parent object. Each document output manager object must be related to either a document or a drawing view.

Possible Cause

- Data in the model database is incorrect or deleted.
- An error occurs when deleting a drawing component.
- An error occurs when creating or deleting a document or drawing view.
- An error occurs during database migration.

Possible Impacts

This record represents an object in the model database that is no longer accessible. This object wastes storage space until it is deleted.

What You Should Do

Run the **Clean Database** custom command to delete this object.

Document Output Manager object's approval status or permission group does not match with the owning SnapIn or Sheet object

Message

Document Output Manager object's approval status or permission group does not match with the owning SnapIn or Sheet object.

Severity

Critical.

Detailed Description

A Drawing Output Manager object's Approval Status or Permission Group does not match that of the owning SnapIn or Drawing Sheet object. By design, a Drawing Output Manager object must have the same approval status and permission group values as that of the owner object.

Possible Cause

When the approval status value of the SnapIn or Drawing Sheet was changed, the value did not propagate to the Drawing Output Manager object.

Possible Impacts

This problem can potentially stop an update or delete operation on the SnapIn or Drawing Sheet.

What You Should Do

Run the **Clean Database** custom command, select the objects, and click **Clean Now**. This operation sets the correct approval status and permission group values on the Document Output Manager objects.

DocumentData object's approval status or permission group does not match with Document Output Manager

Message

DocumentData object's approval status or permission group does not match with Document Output Manager.

Severity

Critical.

Detailed Description

A Drawing Document Data object's Approval Status or Permission Group does not match that of the Drawing Document Output Manager object. By design, a Document Data object must have the same approval status and permission group values as that of the owner object (Drawing Document Output Manager object).

Possible Cause

When the approval status value of the Document Output Manager was changed (due to changing the approval status of Drawing Sheet), the value did not propagate to the Document Data objects.

Possible Impacts

This problem can potentially stop an update or delete operation on the drawing sheet. For example, say that the Document Data objects are in Permission Group 1, and Drawing Sheet and Document Output Manager are in Permission Group 2. If you do not have permission on Permission Group 1, then you cannot update or delete the drawing sheet object.

What You Should Do

Run the **Clean Database** custom command, select the objects, and click **Clean Now**. This operation sets the correct approval status and permission group values on the Document Data objects.

Drawing Issue object's approval status or permission group does not match with Property Object Child

Message

Drawing Issue object's approval status or permission group does not match with Property Object Child.

Severity

Critical.

Detailed Description

A Drawing Issue object's Approval Status or Permission Group does not match with that of the Property Child object. By design, an Issue object must have the same approval status and permission group values as that of the parent property child object.

Possible Cause

Unknown.

Possible Impacts

This problem can potentially stop a delete or update operation on the drawing sheet or SnapIn.

What You Should Do

Run the **Clean Database** custom command, select the objects, and click **Clean Now**. This operation sets the correct approval status and permission group values on the Issue objects.

Drawing Key Plan View object's approval status or permission group does not match with Drawing View object

Message

Drawing Key Plan View object's approval status or permission group does not match with Drawing View object.

Severity

Critical.

Detailed Description

A Key Plan View object's Approval Status or Permission Group does not match with that of the View object. By design, a key plan view object must have the same approval status and permission group values as that of the parent View object.

Possible Cause

Unknown.

Possible Impacts

This problem can potentially stop a delete or update operation on the drawing sheet.

What You Should Do

Run the **Clean Database** custom command, select the objects, and click **Clean Now**. This operation sets the correct approval status and permission group values on the Key Plan View objects.

Drawing object has duplicate relations

Message

Drawing object has duplicate relations.

Severity

High.

Detailed Description

A Drawing object has redundant relations with other objects in the relation's tables.

Possible Cause

This problem is caused by creating the same relation between the same set of objects without verifying the existence of the relation.

Possible Impacts

None.

What You Should Do

Run the **Clean Database** custom command, select the objects, and then click **Clean Now**. This operation fixes all the duplicate relations for the object in question.

Drawing Revision object's approval status or permission group does not match with Property Object Child

Message

Drawing Revision object's approval status or permission group does not match with Property Object Child.

Severity

Critical.

Detailed Description

A Drawing Revision object's Approval Status or Permission Group does not match with that of the Property Child object. By design, a Revision object must have the same approval status and permission group values as that of the parent property child object.

Possible Cause

Unknown.

Possible Impacts

This problem can potentially stop a delete or update operation on the drawing sheet or SnapIn.

What You Should Do

Run the **Clean Database** custom command, select the objects, and click **Clean Now**. This operation sets the correct approval status and permission group values on the Revision objects.

Drawing View Info object's approval status or permission group does not match with Drawing View object

Message

Drawing View Info object's approval status or permission group does not match with Drawing View object.

Severity

Critical.

Detailed Description

A View Info object's Approval Status or Permission Group does not match with that of the View object. By design, a view info object must have the same approval status and permission group values as that of the parent View object.

Possible Cause

Unknown.

Possible Impacts

This problem can potentially stop a delete or update operation on the drawing sheet.

What You Should Do

Run the **Clean Database** custom command, select the objects, and click **Clean Now**. This operation sets the correct approval status and permission group values on the View Info objects.

Drawing View object has no parent Drawing Sheet

Message

Drawing view object has no parent drawing sheet.

Severity

High.

Detailed Description

This drawing view object is not related to a parent document. Each drawing view object must be related to exactly one parent document.

Possible Cause

- Data in the model database is incorrect or deleted.
- An error occurs when deleting a drawing component.
- An error occurs when creating or deleting a document or drawing view.
- An error occurs during database migration.

Possible Impacts

This record represents an object in the model database that is no longer accessible. This object wastes storage space until it is deleted.

What You Should Do

Run the **Clean Database** custom command to delete this object.

Drawing View object's approval status or permission group does not match with Drawing Sheet object

Message

Drawing View object's approval status or permission group does not match with Drawing Sheet object.

Severity

Critical.

Detailed Description

A View object's Approval Status or Permission Group does not match with that of the Sheet object. By design, a View object must have the same approval status and permission group values as that of the parent Sheet object.

Possible Cause

Unknown.

Possible Impacts

This problem can potentially stop a delete or update operation on the drawing sheet.

What You Should Do

Run the **Clean Database** custom command, select the objects, and click **Clean Now**. This operation sets the correct approval status and permission group values on the View objects.

Drawing View on Drawing Component Template has Overrides

Message

Drawing View on Drawing Component Template has Overrides

Severity

Fatal.

Detailed Description

This message identifies a drawing view on a drawing component template sheet that has overrides. A drawing view on a template sheet should never have overrides. The software uses overrides to track the differences between the view on the template and the view on the generated drawing. In cases where the properties of a generated view have been modified to be different than those of the template view, the generated view has corresponding overrides to keep track of the changes.

Possible Cause

A workflow that causes this corruption has not been identified.


Possible Impacts

Updating drawings beneath this component yields unexpected results due to the overrides that exist on the template.


What You Should Do

Use the **Synchronize Drawing Component Templates** custom command to repair this component.

1. Open the model.
2. Click **Tools > Custom Commands**.
3. Run the **Synchronize Drawing Component Templates** custom command. For more information on this command, see *Custom Commands* in the *Common User's Guide*.
4. On the **Synchronize Drawing Component Templates** dialog box, select the corrupted component in the **Component to repair** field.

 **TIP** The **Component to repair** field is populated with any corrupted components.

5. Select the source component in the **Source component** menu.
6. Click **OK**.

 **IMPORTANT** This workflow cannot be undone. Make sure that the source component template is correct before synchronizing.

NOTES

- The source component must be the same type as the corrupted component.
- The source component cannot be corrupted.

- The number of views on the source component must be the same as the number of views on the corrupted component.
- The names of the views on the source component must match the view names of the corrupted component.
- Any view overrides that exist on the generated drawings are preserved after the parent template is synchronized.

Drawing Volume object's approval status or permission group does not match with Drawing View object

Message

Drawing Volume object's approval status or permission group does not match with Drawing View object.

Severity

Critical.

Detailed Description

A Volume object's Approval Status or Permission Group does not match with that of the View object. By design, a volume object must have the same approval status and permission group values as that of the related View object.

Possible Cause

Unknown.

Possible Impacts

This problem can potentially stop a delete or update operation on the drawing sheet or volume.

What You Should Do

Run the **Clean Database** custom command, select the objects, and click **Clean Now**. This operation sets the correct approval status and permission group values on the Volume objects.

Drawing Volume object's approval status or permission group does not match with Drawing View object

Message

Drawing Volume object's approval status or permission group does not match with Drawing View object.

Severity

Critical.

Detailed Description

A Volume object's Approval Status or Permission Group does not match with that of the View object. By design, a volume object must have the same approval status and permission group values as that of the related View object.

Possible Cause

Unknown.

Possible Impacts

This problem can potentially stop a delete or update operation on the drawing sheet or volume.

What You Should Do

Run the **Clean Database** custom command, select the objects, and click **Clean Now**. This operation sets the correct approval status and permission group values on the Volume objects.

Element Broker object has no associated Drawing View

Message

Element broker object has no associated drawing view.

Severity

High.

Detailed Description

This element broker object is not related to a drawing view. Each element broker object must be related to a drawing view.

Possible Cause

- Data in the model database is incorrect or deleted.
- An error occurs when deleting a drawing component.
- An error occurs when creating or deleting a document or drawing view.
- An error occurs during database migration.

Possible Impacts

This record represents an object in the model database that is no longer accessible. This object wastes storage space until it is deleted.

What You Should Do

Run the **Clean Database** custom command to delete this object.

Element Broker object's approval status or permission group does not match with Drawing View object

Message

Element Broker object's approval status or permission group does not match with Drawing View object.

Severity

Critical.

Detailed Description

An Element Broker object's Approval Status or Permission Group does not match with that of the View object. By design, an Element Broker object must have the same approval status and permission group values as that of the parent View object.

Possible Cause

Unknown.

Possible Impacts

This problem can potentially stop a delete or update operation on the drawing sheet.

What You Should Do

Run the **Clean Database** custom command, select the objects, and click **Clean Now**. This operation sets the correct approval status and permission group values on the Element Broker objects.

Material Control Data object with different PG than owner part

Message

Material Control Data object with different PG than owner part.

Severity

High.

Detailed Description

The material control data and its associate part occurrence have different permission groups.

Possible Cause

For on-the-fly items, the catalog part or the material control data object are copied into the model with different parent groups.

Possible Impacts

If you are working with a parent permission group that does not have access to the child support object, you may not be able to modify the child.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command.
3. Select the target objects, and then click **Clean Now**.

Missing Filter on Drawings by QueryManager with children

Message

Missing Filter on Drawings by QueryManager with children.

Severity

Crucial.

Detailed Description

A Drawing by Query Manager requires a filter in order to update a set of drawings. Without this filter, the drawings associated with this Drawing by Query Manager cannot be updated.

Possible Cause

The object filter associated with the Drawing by Query Manager has been deleted or become erroneous.

Possible Impacts

Any drawings that are associated with the Drawing by Query Manager and missing filter cannot be updated.

What You Should Do

Contact Intergraph Process, Power & Marine Support.

Missing relationship for Correlated object. Correlation properties will not be available.

Message

Missing relationship for Correlated object. Correlation properties will not be available.

Severity

High.

Detailed Description

The identified object (Pipeline, Area System, or Unit System) does not participate in a required EFWCorrelationToSP3D relationship.

Possible Cause

The model was created with a software version earlier than V7, and migration failed to create the EFWCorrelationToSP3D relationship correctly.

Possible Impacts

Correlation properties are not available.

What You Should Do

Perform the Database Integrity repair process.

Object has invalid relations

Message

Object has invalid relations.

Severity

Crucial.

Detailed Description

The object has an invalid relation.

Possible Cause

Unknown.

Possible Impacts

The object cannot be recomputed properly, and it can never be deleted.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command, and select the objects in error.

Property object's approval status or permission group does not match with Drawing Sheet or SnapIn

Message

Property object's approval status or permission group does not match with Drawing Sheet or SnapIn.

Severity

Critical.

Detailed Description

A Drawing Property object's Approval Status or Permission Group does not match that of the owning Drawing Sheet or SnapIn object. By design, a Property object must have the same approval status and permission group values as that of the owner object (Drawing Sheet or SnapIn object).

Possible Cause

When the approval status value of the Drawing Sheet or SnapIn was changed, the value did not propagate to the Property object.

Possible Impacts

This problem can potentially stop a delete operation on the drawing sheet or snap-in. You might not be able to change the properties of the Drawing Sheet or SnapIn objects.

What You Should Do

Run the **Clean Database** custom command, select the objects, and click **Clean Now**. This operation sets the correct approval status and permission group values on the Property objects.

PropertyChild entity has no parent PropertyObject

Message

PropertyChild entity has no parent PropertyObject.

Severity

Low.

Detailed Description

A Drawing PropertyChild object has no relationship with its parent PropertyObject. This relationship is used to expand the flexibility of the PropertyObject to allow user customization. This Drawing PropertyChild is an orphaned object.

Possible Cause

Tables or entries in a table in the Model database may have been deleted or become erroneous. An error may have occurred when creating or deleting a Drawing SnapIn while in the Drawings and Reports task. If you have recently migrated the software to work with a later version, an error may have occurred in the migration process.

Possible Impacts

This object will not be referenced again. There is no negative impact if the database entries for this object remain in the Model database.

What You Should Do

No action.

PropertyObject has no associated SnapIn or Sheet

Message

PropertyObject has no associated SnapIn or Sheet.

Severity

Low.

Detailed Description

A Drawing PropertyObject has no relationship with its parent. This relationship is used to store and retrieve property values for objects in the Drawings and Reports task. This Drawing PropertyObject is an orphaned object.

Possible Cause

Tables or entries in a table in the Model database may have been deleted or become erroneous. An error may have occurred when creating or deleting a Drawing SnapIn while in the Drawings and Reports task. If you have recently migrated the software to work with a later version, an error may have occurred in the migration process.

Possible Impacts

This object will not be referenced again. There is no negative impact if the database entries for this object remain in the Model database.

What You Should Do

1. Ask your database administrator to back up the model.

2. Run the **Clean Database** custom command to remove the object.

Report object's approval status or permission group does not match with View Generator object

Message

Report object's approval status or permission group does not match with View Generator object.

Severity

Critical.

Detailed Description

A Report object's Approval Status or Permission Group does not match with that of the View Generator object. By design, a Report object must have the same approval status and permission group values as that of the parent View generator object.

Possible Cause

Unknown.

Possible Impacts

This problem can potentially stop a delete or update operation on the drawing sheet and/or view.

What You Should Do

Run the **Clean Database** custom command, select the objects, and click **Clean Now**. This operation sets the correct approval status and permission group values on the Report objects.

Report Template object's approval status or permission group does not match with Drawing View object

Message

Report Template object's approval status or permission group does not match with Drawing View object.

Severity

Critical.

Detailed Description

A Report Template object's Approval Status or Permission Group does not match with that of the View object. By design, a Report Template object must have the same approval status and permission group values as that of the parent View object.

Possible Cause

Unknown.

Possible Impacts

This problem can potentially stop a delete or update operation on the drawing sheet or view.

What You Should Do

Run the **Clean Database** custom command, select the objects, and click **Clean Now**. This operation sets the correct approval status and permission group values on the Report Template objects.

Sheet entity has no associated parent SnapIn

Message

Sheet entity has no associated parent SnapIn.

Severity

Low.

Detailed Description

A Drawing Sheet object has no relationship with its parent Drawing SnapIn. This relationship is used in organizing drawings (Drawing Sheets) in the hierarchy in the Management Console and Detail View in the Drawings and Reports task. This Drawing Sheet is an orphaned object.

Possible Cause

Tables or entries in a table in the Model database may have been deleted or become erroneous. An error may have occurred when creating or deleting a drawing (Drawing Sheet) or deleting a Drawing SnapIn while in the Drawings and Reports task. If you have recently migrated the software to work with a later version, an error may have occurred in the migration process.

Possible Impacts

This object will not be referenced again. There is no negative impact if the database entries for this object remain in the Model database.

What You Should Do

No action.

SnapIn entity has no associated parent

Message

SnapIn entity has no associated parent.

Severity

Low.

Detailed Description

A Drawing SnapIn object has no relationship with its parent Drawing SnapIn. This relationship is the mechanism for how the hierarchy in the Management Console in the Drawings and Reports task is displayed. This Drawing SnapIn is an orphaned object.

Possible Cause

Tables or entries in a table in the Model database may have been deleted or become erroneous. An error may have occurred when creating or deleting a Drawing SnapIn while in the Drawings and Reports task. If you have recently migrated the software to work with a later version, an error may have occurred in the migration process.

Possible Impacts

This object will not be referenced again. There is no negative impact if the database entries for this object remain in the Model database.

What You Should Do

No action.

SnapIn entity has no associated PropertyObject

Message

SnapIn entity has no associated PropertyObject.

Severity

Fatal.

Detailed Description

A Drawing SnapIn object has no relationship with a Drawing PropertyObject. The Drawing PropertyObject is used to store and retrieve all user properties (displayed by right-clicking and choosing **Properties**). This relationship is mandatory for the correct operation of a Drawing SnapIn. Without it, the Drawing SnapIn will not be usable in the Drawings and Reports task.

Possible Cause

Tables or entries in a table in the Model database may have been deleted or become erroneous. An error may have occurred when creating or deleting a Drawing SnapIn while in the Drawings

and Reports task. If you have recently migrated the software to work with a later version, an error may have occurred in the migration process.

Possible Impacts

The Drawing SnapIn identified by this message is not usable in the Drawings and Reports task. Any drawings that are located under this SnapIn may be incorrect or irretrievable. No new drawings can be created underneath this Drawing SnapIn.

What You Should Do

Contact Intergraph Process, Power & Marine Support.

Snapshot view is not associated to a volume

Message

Snapshot view is not associated to a volume

Severity

Crucial.

Detailed Description

A Drawing snapshot view has no relationship with a Drawing volume. This relationship is needed to identify the area to be drawn.

Possible Cause

The volume was unintentionally deleted.

Possible Impacts

The view can no longer be updated.

What You Should Do

If the view needs to be updated, delete it and recreate the view with a new volume.

Template Manager object has no parent Snapin or Sheet

Message

Template Manager object has no parent snapin or sheet.

Severity

High.

Detailed Description

This template manager object is not related to a parent object. Each template manager object must be related to either a drawing component or a document.

Possible Cause

- Data in the model database is incorrect or deleted.
- An error occurs when deleting a drawing component.
- An error occurs during database migration.

Possible Impacts

This record represents a template file in the model database that is no longer accessible. This file wastes storage space until it is deleted.

What You Should Do

Run the **Clean Database** custom command to delete this object.

Template Manager object's approval status or permission group does not match with Parent Drawing Type or Sheet

Message

Template Manager object's approval status or permission group does not match with Parent Drawing Type or Sheet.

Severity

Critical.

Detailed Description

The Template Manager object's Approval Status or Permission Group does not match with the owning Drawing Type or Drawing Sheet object. The Template Manager holds the information of the template. By design, a Template Manager object must have the same approval status and permission group values as that of the owner object (Drawing Type for Volume and Orthographic Database Query Drawings, Drawing Sheet for Composed Drawings).

Possible Cause

When the Approval Status or Permission Group value of the parent Snapin/Sheet was changed, the value did not propagate to the Template Manager object.

Possible Impacts

This problem can potentially stop creation of new Drawings under the Drawing Type or cause problems in deleting the Drawing Type or Sheet.

What You Should Do

Run the **Clean Database** custom command, select the objects, and click **Clean Now**. This operation sets the correct approval status and permission group values on the Template Manager objects.

Template Mgr object has no parent Snapin or Sheet

Message

Template Manager object has no parent drawing component or drawing sheet.

Severity

High.

Detailed Description

Creation of a Spatial drawing component or a composed drawing also results in the creation of a Template Manager object. This Template Manager stores the templates used for the creation of drawings. For a Spatial drawing component, the Template Manager stores the template created by **Edit Template**. For a Composed drawing, the Template Manager stores Border and Layout templates associated with a Composed drawing. A Template Manager object without a Spatial drawing component or Composed drawing serves no purpose, and must be deleted.

Possible Cause

Unknown, but not a common occurrence.

Possible Impacts

None.

What You Should Do

Run the **Clean Database** custom command, select the objects, and click **Clean Now**. This operation removes these objects and any child objects.

Template Sheet is corrupted

Message

Template Sheet is corrupted.

Severity

Fatal.

Detailed Description

A Drawing Component has a corrupted template. As defined by the Drawings Data Model, the Drawings Volume component must have a template. A template usually has one or more Smart Frames that contain the graphics to be created on an update operation. These Smart Frames

are linked indirectly to Drawing View objects, which store all the information of the Smart Frames (view definition). The link between the Smart Frames and the drawing view has been lost. This means that the Drawings application cannot regenerate the drawings on an update operation because necessary information is missing.

Possible Cause

A workflow that causes this problem has not been identified yet.

Possible Impacts

After the template sheet is corrupted, it becomes unusable:

- A volume cannot be associated to the corrupted component. This means that a new drawing cannot be created.
- Existing drawings under this volume component will not produce the correct results on an update operation.
- Copies of the corrupted template will be corrupted too.

What You Should Do

To fix the problem, follow the steps below:

1. Identify the volume component with the problem.
2. On the component, perform the **Edit Template** operation. This will display the document in the Drawings Editor.
3. Delete any existing Smart Frames in the document.
4. Save and exit the Drawings Editor.
5. On the component, perform the **Edit Template** operation again.
6. Place view(s) with the appropriate information.
7. Save and exit the Drawings Editor.

These steps eliminate the problem. You can now update drawings, copy and paste, create drawings, and so forth.

View Info object has no associated Element Broker

Message

View Info object has no associated element broker.

Severity

High.

Detailed Description

This view info object is not related to an element broker. Each view info object must be related to an element broker.

Possible Cause

- Data in the model database is incorrect or deleted.
- An error occurs when deleting a drawing component.
- An error occurs when creating or deleting a document or drawing view.
- An error occurs during database migration.

Possible Impacts

This record represents an object in the model database that is no longer accessible. This object wastes storage space until it is deleted.

What You Should Do

Run the **Clean Database** custom command to delete this object.

SECTION 10

Equipment and Furnishings

This section contains Equipment and Furnishings database integrity messages.

Assembly Constraint is not associated to a part occurrence

Message

Assembly Constraint is not associated to a part occurrence.

Severity

High, Medium, Low.

Detailed Description

Assembly Constraint (relationship) object is not related to an equipment item anymore.

Possible Causes

- The cause is currently unknown.

Possible Impacts

- Some commands may not work properly.
- Possible erroneous or inaccurate Equipment reports.

What You Should Do

If the problem is local to one or a few pieces of equipment:

1. Open the model.
2. Delete the equipment.
3. Save the session.
4. Refresh all session files with a workspace including the equipment.

If the problem is widespread on all equipment:

1. Restore your most recent backup using the Project Management task.
2. Refresh your session files.

Cable Nozzle does not have proper orientation values

Message

Cable Nozzle does not have proper orientation values.

Severity

Normal.

Detailed Description

Cable nozzles should have the proper orientation vectors declared. The orientation vectors should not be persisted as NULL values as we specify 1,0,0 for orientation and 0,1,0 for radial orientation vectors (DistribPortType_CABLE).

Possible Cause

Undetermined workflow in the **Place Nozzle** command.

Possible Impacts

The cable nozzle might be displayed incorrectly.

What You Should Do

Run the **Clean Database** custom command, which updates the orientation vector and the radial orientation vectors with the default values.

Conduit Nozzle does not have proper orientation values

Message

Conduit Nozzle does not have proper orientation values.

Severity

Normal.

Detailed Description

Conduit nozzles should have proper orientation vectors declared. The orientation vectors should not be persisted as NULL values as we specify 1,0,0 for orientation and 0,1,0 for radial orientation vectors (DistribPortType_CONDUIT).

Possible Cause

Undetermined workflow in the **Place Nozzle** command.

Possible Impacts

The conduit nozzle might be displayed incorrectly.

What You Should Do

Run the **Clean Database** custom command, which updates the orientation vector and the radial orientation vectors with the default values.

Design Equipment has Invalid Range

Message

Design Equipment has Invalid Range.

Severity

Normal.

Detailed Description

A Design Equipment with no children (no Shape or Standard Equipment) is not supposed to have any range stored in the CORESpatialIndex(range) table. The DB integrity scripts check to see if there is any Design Equipment with no children, but with an entry in the range table.

Possible Cause

Prior to Version 4.1, the design equipment range with no children was stored in the range table. This problem was fixed in V4.1, but existing data was not migrated. This script will report them in the DBIntegrity report.

Possible Impacts

- This situation could cause problems in range calculations.
- This situation places unnecessary entries in the range table.

What You Should Do

The entries in the range table must be deleted. There is currently no mechanism to trigger the script to fix this DB integrity problem using the **Clean Database** custom command.

Design Solid unspecified error 3

Message

Designed Solid geometry requires updating to ensure stable reference geometry.

Severity

Critical.

Detailed Description

Existing designed solids need to be repaired before any drawings can be produced for these objects. If they are not repaired, you may have to continually correct their dimensions on the solids.

Possible Cause

This is an internal flaw due to uniquely naming the surfaces of the solid.

Possible Impacts

Any dimensional references to surface of a designed solid may be incorrect or lost.

What You Should Do

1. Open the model.
2. Run the **Clean Database** command to delete the object properly.

Equipment does not have a system parent

Message

Equipment does not have a system parent.

Severity

High.

Detailed Description

The equipment is not related to its system parent anymore. This situation is unexpected.

Possible Causes

- The cause at run time is currently unknown.
- The cause could be external, for example, database manipulation.

Possible Impacts

- Some commands may work incompletely.

- You cannot copy the equipment to the catalog. If you try, an error appears: No required inputs were generated. If inputs were required, this may be a problem. When you click **OK**, the software displays an application error.
- Equipment reports are possibly erroneous or inaccurate.
- It is impossible to retrieve equipment using filters and style rules based on systems.

What You Should Do

If the problem is local to one or a few equipment:

1. Open the model.
2. Delete the equipment.
3. Save the session.
4. Refresh all session files with a workspace including the equipment.

If the problem is widespread on all equipment:

1. Restore your most recent backup using the Project Management task.
2. Refresh your session files.

Equipment has DBL_UNDEFINED values persisted for CG value

Message

Equipment has DBL_UNDEFINED values persisted for CG value.

Severity

High.

Detailed Description

The equipment has Double, Undefined values persisted for the center-of-gravity (CG) values.

Possible Cause

The cause could be that the values of the CG properties (wet and dry) are persisted with the C/C++ definition for NULL instead of SQL NULL.

Possible Impacts

If the values of the CG properties (wet and dry) are persisted with DBL_UNDEFINED values instead of SQL NULL, any query that has these columns will cause an overflow error on SQL Server 2005.

What You Should Do

Run the **Clean Database** custom command, which updates the values of the CG properties with SQL NULL.

Equipment is not associated to a part

Message

Equipment is not associated to a part.

Severity

Crucial.

Detailed Description

The part definition in the catalog for the standard equipment or in the model for the design equipment has been deleted.

Standard Equipment

- If Synchronize has not been run, the equipment is not put in the To Do List. For this reason, a simple re-bulkload of the part (with the same name, same input parameters, and same outputs) will reconnect the part.
- If Synchronize has been run, the equipment is in the To Do List. No reconnection is possible even if the part is re-created in the catalog.
- Solid Edge Equipment with flavors in the Catalog: The equipment may also have its flavor deleted. After you refresh the workspace, a line and a circle appear instead of the missing graphic definition.
- Solid Edge or VB Equipment with flavors in the Model: The correct graphic always appears.

Designed Equipment

- This situation should not happen. Please contact Intergraph Process, Power & Marine Support.

Possible Causes

- The part in the catalog has been deleted by the Bulkload utility.
- The error may be the result of unsupported catalog manipulations.
- The error may be the result of an improper backup and restore procedure.

Possible Impacts

- The **Definition** tab of the property pages will be absent.
- Some commands may work incompletely.
- Equipment reports may be erroneous or inaccurate (if they include part attributes).
- Filters or style rules behavior may be unexpected (if they filter on part attributes).
- If the equipment has been copied to the catalog, the impact is unknown.

What You Should Do

If the problem is local to one or a few equipment:

1. Open the model.

2. Delete the equipment.
3. Delete any macro (created by the **Copy to Catalog** command) using this equipment (it may be difficult to find because it is not the same equipment, but another occurrence of the same part).
4. Save the session.
5. Refresh all session files having a workspace including the equipment.

If the problem is widespread on all equipment:

1. Restore your most recent backup using the Project Management task.
2. Refresh your session files.

Equipment or Equipment component does not have a coordinate system

Message

Equipment or Equipment component does not have a coordinate system.

Severity

High.

Detailed Description

The equipment does not have a coordinate system. When you select the equipment, the coordinate system (yellow color) does not appear.

Possible Causes

- The cause is currently unknown.

Possible Impacts

- Some commands may work incompletely.
- Impossible to get an active coordinate system using **PinPoint** when selecting equipment graphically.
- Possible erroneous or inaccurate equipment reports.
- Impact on shape placement.

What You Should Do

1. Open the model.
2. Delete the equipment.
3. Save the session.
4. Refresh all session files with a workspace including the equipment.

Equipment ports do not have a parent

Message

Equipment ports do not have a parent.

Severity

High.

Detailed Description

The port is not related to an equipment anymore.

Possible Causes

- The cause is currently unknown.

Possible Impacts

- Some commands may work incompletely.
- Equipment reports may be erroneous or inaccurate.

What You Should Do

1. Open the model.
2. Delete the port(s).

Error code 58 - unspecified error description

Message

Error code 58 - unspecified error description.

In V7, this message will be Shape has Invalid Range.

Severity

High.

Detailed Description

A shape has an invalid range.

Possible Cause

This problem occurs when migration asks for the range of one of the shapes that are imported from a SAT file. Historically, some SAT file imports have generated this kind of shape. The SAT file import process has now been improved to prevent creating such shapes, but the existing shapes will still log these errors.

Possible Impacts

The shapes are no longer usable. They cannot be selected or located. It is not possible to repair these shapes.

What You Should Do

1. Open the model.
2. Delete the shape(s).
3. Save the session.
4. Refresh all session files with a workspace that includes the equipment.

Invalid WCGProperties for the object that has valid weight and CG

Message

Invalid WCGProperties for the object that has valid weight and CG.

Severity

Crucial.

Detailed Description

The column **WCGProperties** contains invalid equipment or equipment components, although the weight and center of gravity (CG) are valid.

Possible Cause

If any one of the weight or CG values is not defined, then the **WCGProperties** column persists with DBL_UNDEFINED values.

Possible Impacts

If the values of the **WCGProperties** (wet and dry) are persisted with DBL_UNDEFINED values, then the parent system will not display the weight and CG values in the property dialog box. However, the weight and CG of its child is defined.

What You Should Do

1. Run the **Clean Database** custom command, which updates the values of the **WCGProperties** with proper values.

Nozzle is not associated to an EFCorrelation object

Message

Nozzle is not associated to an EFCorrelation object. It cannot be correlated.

Severity

Crucial.

Detailed Description

Objects do not have the expected related objects. The EF Correlation-related functionality fails.

Possible Cause

This situation may have been caused by deleting objects selected by a filter based on the Correlation Status property. Other related objects will be in an erroneous state.

Possible Impacts

None.

What You Should Do

1. Open the model.
2. Delete the object.
3. Create it again in the same way as it was created the first time.

Orphaned Nozzle

Message

Orphaned Nozzle.

Severity

High.

Detailed Description

The nozzle does not have any relationships.

Possible Cause

Undetermined workflow in the **Place Nozzle** command.

Possible Impacts

This is not a nozzle that has lost its relationships. It is an extra nozzle that may be undesirably displayed or reported by spatial filters.

What You Should Do

Remove the unnecessary nozzle by using the **Clean Database** custom command.

Permission Group of the object is different from the Parent Object

Message

Permission Group of the object is different from the Parent Object.

Severity

High.

Detailed Description

The permission group of equipment children should be same as that of the parent equipment.

Possible Cause

Copying the children of design equipment to another design equipment in a different permission group. Then, the children in the design equipment do not have the same permission group as that of its parent design equipment.

Possible Impacts

This problem prevents the deletion of the equipment because you do not have permission to delete the child.

What You Should Do

Run the **Clean Database** custom command, which sets the Equipment permission group to the children.

Permission Group of the shape is different from the corresponding Smart Equipment

Message

Equipment Unspecified Error 2 (Permission Group of the shape is different from the corresponding Smart Equipment).

Severity

Crucial.

Detailed Description

The permission group of a shape should be the same as the corresponding smart equipment.

Possible Cause

Copying the shapes of design equipment to another design equipment in a different permission group. Then, the shape in the design equipment does not have the same permission group as that of its parent design equipment.

Possible Impacts

This problem prevents the deletion of the equipment because you do not have permission to the permission group of the child (shape).

What You Should Do

Run the **Clean Database** custom command, which sets the Equipment permission group to the shape.

Shape does not have an equipment parent

Message

Shape does not have an equipment parent.

Severity

Normal.

Detailed Description

The shape is not related to a design equipment parent anymore. This situation is unexpected.

Possible Causes

- The cause is currently unknown.

Possible Impacts

- Some commands may work incompletely.
- Equipment reports may be erroneous or inaccurate.
- It is impossible to retrieve equipment using filters and style rules based on systems.

What You Should Do

1. Open the model.
2. Delete the shape(s).
3. Save the session.
4. Refresh all session files with a workspace including the equipment.

Smart Equipment has a missing relation with symbol sub system

Message

Equipment Unspecified Error 1 (Smart Equipment has a missing relation with symbol sub system).

Severity

Crucial.

Detailed Description

Smart Equipment should have a relationship with its corresponding symbol sub system.

Possible Cause

This problem is observed when a few equipment parts are added and then later, the equipment parts are removed from the catalog. The parts are in the **To Do List**, with messages that the part from reference data is missing. If you add the same part again, the relationship between the smart equipment and its symbol sub system is not re-created.

Possible Impacts

The placement of the equipment (compute of the symbol) fails.

What You Should Do

Run the **Clean Database** custom command, which re-creates the relationship between the equipment and the symbol sub system.

Smart Item associated to Equipment has different permission group

Message

Design Equipment Unspecified Error 2 (Smart Item associated to Equipment has different permission group).

Severity

Crucial.

Detailed Description

The permission group of a Smart Item should be same as the Equipment with which it is associated when the Smart Item is in the model.

Possible Cause

A possible cause could be that a repair operation on a Design Equipment created a unique Smart Item that was assigned to the current Permission Group. The Smart Item is related to Design Equipment, and the permission groups are different.

Possible Impacts

This problem prevents the deletion of the equipment because you do not have permission to the permission group of the Smart Item.

What You Should Do

Run the **Clean Database** custom command, which sets the Equipment permission group on the Smart Item.

SECTION 11

General Errors

This section contains general database integrity messages.

Object does not have a parent

Message

Object does not have a parent.

Severity

High

Detailed Description

Object does not have a parent for it to exist.

Possible Cause

Unknown

Possible Impacts

Unknown

What You Should Do

Delete the object.

SECTION 12

Geometry and Topology

This section contains Geometry and Topology database integrity messages.

In This Section

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Cannot enclose void to construct a solid

Message

Cannot enclose void to construct a solid.

Severity

Low.

Detailed Description

Cannot enclose void to construct a solid from the given set of face geometries (represented as standalone sheets). Applications are expected to handle the well-defined error code `MODELTOPOLOGY_E_CANNOTENCLOSEVOID`.

Possible Cause

The given set of face geometries is not consistent to produce a closed solid within the distance tolerance.

Possible Impacts

None if the calling code (such as Structure semantics) is properly managing returned error codes from Geometry and Topology.

What You Should Do

Extract the ACIS topology for the bounding sheets, and use the Scheme interpreter to produce a solid. If it still fails, then the problem needs to be reported to Spatial support.

Cannot stitch and orient the given surface bodies

Message

Cannot stitch and consistently orient the given surface bodies.

Severity

Medium.

Detailed Description

Cannot stitch and consistently orient the given surface bodies. Calling applications are expected to handle the MODELTOPOLOGY_E_CANNOTSTITCH and MODELTOPOLOGY_E_CANNOTORIENT error codes.

Possible Cause

The input surface bodies cannot stitch and consistently orient within the distance tolerance.

Possible Impacts

None if the calling code (such as Structure semantics) is properly managing returned error codes from Geometry and Topology.

What You Should Do

Reduce the number of inputs to stitch in order to detect the input that is causing problems.

Model body has no topology

Message

The resulting model body has no topology.

Severity

Low.

Detailed Description

Structure semantics calling the Geometry and Topology Boolean APIs should handle the well-defined HRESULT error code MODELTOPOLOGY_E_NULLBODY.

Possible Cause

In the context of Boolean APIs, a result with no topology (such as a null model body) is returned if the tool body is greater than the blank body (also known as material).

Possible Impacts

None if the calling code is handling MODELTOPOLOGY_E_NULLBODY properly.

What You Should Do

Report to the concerned application that a null model body has been produced, and that the calling code needs to handle it properly.

Model body is self-intersecting

Message

The given model body is self-intersecting.

Severity

Low.

Detailed Description

The given model body is self-intersecting (for example, a RAD2d collection of segments translated as a single wireframe body). Calling applications are expected to handle the MODELTOPOLOGY_E_SELFINTERSECTION error code.

Possible Cause

For example (in the case of a 3-D wireframe model body translated from RAD2d), ill-defined values for a parametric symbol can cause self-intersection between edges.

Possible Impacts

None if the calling code (such as Structure semantics) is properly managing returned error codes from Geometry and Topology.

What You Should Do

For example (in the case of a 3-D wireframe model body translated from RAD2d), use a validation tool for parametric symbols to re-compute (hosted by Common2D/Symbol2D).

Model geometries do not intersect

Message

The given model geometries do not intersect.

Severity

Low.

Detailed Description

Structure semantics calling the Geometry and Topology intersection API should handle the well-defined HRESULT error code MODELTOPOLOGY_E_NOINTERSECTION.

Possible Cause

The input model geometries do not intersect.

Possible Impacts

None if the calling code is handling MODELTOPOLOGY_E_NOINTERSECTION.

What You Should Do

Report to the concerned application that the intersection failure is not properly handled.

Model geometries do not overlap

Message

The given model geometries do not overlap.

Severity

Low.

Detailed Description

Structure semantics calling the Geometry and Topology common geometry API should handle the well-defined HRESULT error code MODELTOPOLOGY_E_NOOVERLAP.

Possible Cause

The input model geometries do not have common geometry within the distance tolerance.

Possible Impacts

None if the calling code is handling MODELTOPOLOGY_E_NOOVERLAP properly.

What You Should Do

Report to the concerned application that the common geometry failure is not properly handled.

Unexpected failure in GeomOperations module

Message

Unexpected failure in GeomOperations module.

Severity

High.

Detailed Description

An unexpected failure occurred within the GeomOperations module of Geometry and Topology. This situation is unexpected.

Possible Cause

The cause is currently unknown.

Possible Impacts

None if the calling code (such as Structure semantics) is properly managing returned error codes from Geometry and Topology.

What You Should Do

Provide a well-defined scenario to reproduce the failure, and log a software issue for the Geometry and Topology team.

SECTION 13

Grids

This section contains Grids database integrity messages.

In This Section

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Coordinate System contains some Planes/Cylinders at same position

Message

Coordinate System contains some Planes/Cylinders at same position.

Severity

High.

Detailed Description

Some Planes/Cylinders on the axis of the Coordinate System are at the same position.

Possible Cause

Unknown.

Possible Impacts

Unable to copy/paste the Coordinate System. Unable to edit those Planes/Cylinders.

What You Should Do

Change the Plane/Cylinder positions so they are unique on the axis.

To see all positions on a given axis, execute the following scripts for each reported Coordinate System. Replace '{XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXXX}' with the oid of the Coordinate System. The script will display Plane/Cylinder oid, name, and position.

- For the X-axis:

```
select entity.oid, namedItem.strName, entity.position from
GRDSYSSPGGridPlane as entity
```

```
join XXAxisCS as cs on entity.oid = cs.oidDestination
join CORENamedItem as namedItem on namedItem.oid = entity.oid
where cs.oidOrigin = '{XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX}';
```

- For the Y-axis:

```
select entity.oid, namedItem.strName, entity.position from
GRDSYSSPGGridPlane as entity
join XYAxisCS as cs on entity.oid = cs.oidDestination
join CORENamedItem as namedItem on namedItem.oid = entity.oid
where cs.oidOrigin = '{XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX}';
```

- For the Z-axis:

```
select entity.oid, namedItem.strName, entity.position
from GRDSYSSPGElevationPlane as entity
join XZAxisCS as cs on entity.oid = cs.oidDestination
join CORENamedItem as namedItem on namedItem.oid = entity.oid
where cs.oidOrigin = '{XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX}';
```

- For the R-axis:

```
select entity.oid, namedItem.strName, entity.position
from GRDSYSSPGRadialPlane as entity
join XRAxisCS as cs on entity.oid = cs.oidDestination
join CORENamedItem as namedItem on namedItem.oid = entity.oid
where cs.oidOrigin = '{XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX}';
```

- For the C-axis:

```
select entity.oid, namedItem.strName, entity.position
from GRDSYSSPGRadialCylinder as entity
join XCAxisCS as cs on entity.oid = cs.oidDestination
join CORENamedItem as namedItem on namedItem.oid = entity.oid
where cs.oidOrigin = '{XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX}';
```

Object does not have the requested data

Message

Object does not have the requested data.

Severity

Crucial for:

- Coordinate System: GRDSYSSPGCoordinateSystem (Object OID starting with 00046CD1).
- Ship Coordinate System: GRDSYSSPGShipCoordinateSystem (Object OID starting with 00046CD7).
- Grid Plane: GRDSYSSPGGridPlane (Object OID starting with 00046CD4).
- Elevation Plane: GRDSYSSPGElevationPlane (Object OID starting with 00046CD3).
- Radial Plane: GRDSYSSPGRadialPlane (Object OID starting with 00046CD8).
- Radial Cylinder: GRDSYSSPGRadialCylinder (Object OID starting with 00046CD9).

- Axis For Ruler: GRDSYSSPGAxisForRuler (Object OID starting with 00046CD2).
- Grid Arc: GRDSYSSPGGridArc (Object OID starting with 00046CDA).

High for:

- Coordinate System: GRDSYSSPGCoordinateSystem (Object OID starting with 00046CD1).
- Grid Plane: GRDSYSSPGGridPlane (Object OID starting with 00046CD4).
- Elevation Plane: GRDSYSSPGElevationPlane (Object OID starting with 00046CD3).
- Radial Plane: GRDSYSSPGRadialPlane (Object OID starting with 00046CD8).
- Radial Cylinder: GRDSYSSPGRadialCylinder (Object OID starting with 00046CD9).

Normal for:

- Grid Plane: GRDSYSSPGGridPlane (Object OID starting with 00046CD4).
- Elevation Plane: GRDSYSSPGElevationPlane (Object OID starting with 00046CD3).
- Radial Plane: GRDSYSSPGRadialPlane (Object OID starting with 00046CD8).
- Radial Cylinder: GRDSYSSPGRadialCylinder (Object OID starting with 00046CD9).

Detailed Description

The object does not contain a valid value for its stored data. Valid data values are:

- Coordinate System:
 - BearingBase should be North (2), South (4), East (3), or West (1). This error has a High severity.
 - BearingAxis should be North (2), South (4), East (3), or West (1). This error has a High severity.
 - AzimutBase should be East (3), West (1), Down (6), Up (5), or North (2). This error has a High severity.
 - AzimutAxis should be North (2), South (4), East (3), or West (1). This error has a High severity.
 - Type should be Plant (1), Global (2), Grids (3), Other (4), or Ship (5). This error has a Crucial severity.
 - AllowedHand:
 - For Grids (3), Plant (1), Global (2), and Ship (5) Coordinate System Type, AllowedHand should be Right (1). This error has a High severity.
 - For Other (4) Coordinate System Type, AllowedHand should be Right (1), Left (2), or Right and Left (3). This error has a High severity.
- Ship Coordinate System:
 - Orientation should be either csAftLookingForward (0) or csForeLookingAft (1). This error has a Crucial severity.
- Grid Plane:
 - Axis should be either X (1) or Y (2). This error has a Crucial severity.

- NestingLevel should be Primary (1), Secondary (2), or Tertiary (3). This error has a High severity.
- RotationAxis should be Z (3), Y (2) for X Grid Plane, or X (1) for Y Grid Plane. This error has a High severity.
- InternalFlag should be either 0 or ShowAllGridLine (0x1). This error has a Normal severity.
- Elevation Plane:
 - Axis should be Z (3). This error has a Crucial severity.
 - NestingLevel should be Primary (1), Secondary (2), or Tertiary (3). This error has a High severity.
 - Angle should be 0. This error has a Normal severity.
 - RotationAxis should be 0. This error has a Normal severity.
 - InternalFlag should be 0. This error has a Normal severity.
- Radial Plane:
 - Axis should be R (4). This error has a Crucial severity.
 - NestingLevel should be Primary (1), Secondary (2), or Tertiary (3). This error has a High severity.
 - Angle should be 0. This error has a Normal severity.
 - RotationAxis should be 0. This error has a Normal severity.
 - InternalFlag should be either 0 or ShowAllGridLine (0x1). This error has a Normal severity.
- Radial Cylinder:
 - Axis should be C (5). This error has a Crucial severity.
 - NestingLevel should be Primary (1), Secondary (2), or Tertiary (3). This error has a High severity.
 - Angle should be 0. This error has a Normal severity.
 - RotationAxis should be 0. This error has a Normal severity.
 - InternalFlag should be either 0 or ShowAllGridLine (0x1). This error has a Normal severity.
- Axis For Ruler:
 - Axis should be X (1), Y (2), Z (3), R (4), or C (5). This error has a Crucial severity.
- Grid Arc:
 - ArcQuadrant should be pXpY (1), pXmY (2), mXmY (4), or mXpY (8). This error has a Crucial severity.

Possible Cause

Values were changed directly in the database.

Possible Impacts

For the error with Crucial severity, the object may not work properly.

For the error with High severity, the object could have a local problem.

For the error with Normal severity, there is no impact.

What You Should Do

Set the database column values according to the available values described in the **Detailed Description** section above.

Object does not have the requested relation

Message

Object does not have the requested relation.

Severity

Fatal for:

- Grid Plane: GRDSYSSPGGridPlane (Object OID starting with 00046CD4).
- Elevation Plane: GRDSYSSPGElevationPlane (Object OID starting with 00046CD3).
- Radial Plane: GRDSYSSPGRadialPlane (Object OID starting with 00046CD8).
- Radial Cylinder: GRDSYSSPGRadialCylinder (Object OID starting with 00046CD9).
- Grid Line: CORELine3d (Object OID starting with 00046CD5).
- Grid Line Intersection AE: COREBaseClass (Object OID starting with 00046CD6).
- Grid Arc: GRDSYSSPGGridArc (Object OID starting with 00046CDA).
- Grid Arcs Intersection AE: COREBaseClass (Object OID starting with 00046CDB).

Normal for:

- Axis For Ruler: GRDSYSSPGAxisForRuler (Object OID starting with 00046CD2).

Detailed Description

The object is orphaned. It does not have a relation to a parent object. Relations are:

- Grid Plane:
 - X Grid Plane should be connected to the Coordinate System by the REL_XAxisCS relation. This error has a Fatal severity.
 - Y Grid Plane should be connected to the Coordinate System by the REL_YAxisCS relation. This error has a Fatal severity.
- Elevation Plane:
 - Elevation Plane should be connected to the Coordinate System by the REL_ZAxisCS relation. This error has a Fatal severity.
- Radial Plane:

- Radial Plane should be connected to the Coordinate System by the REL_RAxisCS relation. This error has a Fatal severity.
- Radial Cylinder:
 - Radial Cylinder should be connected to the Coordinate System by the REL_CAxisCS relation. This error has a Fatal severity.
- Grid Line/Grid Line Intersection AE:
 - Grid Line should be connected to the Grid Line Intersection AE by the REL_GLIntersection_Result relation. This error has a Fatal severity.
 - Grid Line Intersection AE should be connected to the Elevation and Grid Planes by the REL_GLIntersection_Intersection relation. This error has a Fatal severity.
- Grid Arc/Grid Arcs Intersection AE:
 - Grid Arc should be connected to the Grid Arcs Intersection AE by REL_GAIntersection_Result relation. This error has a Fatal severity.
 - Grid Arcs Intersection AE should be connected to the Elevation and Radial Cylinders by the REL_GAIntersection_Intersection relation. This error has a Fatal severity.
- Axis For Ruler:
 - Axis For Ruler should be connected to the Coordinate System by the REL_CoordinateSystemToAxis relation. This error has a Normal severity.

Possible Cause

Unknown.

Possible Impacts

For the errors of Fatal severity, the object will not work properly.

For the errors of Normal severity, there is no impact.

What You Should Do

For the Fatal errors, try to reconnect the object to its parent. If its parent was deleted, delete the object.

For the Normal errors, delete the object.

Object has invalid geometry

Message

Object has invalid geometry.

Severity

High.

Detailed Description

The Coordinate System does not have the correct vectors.

Possible Cause

The matrix stored in the database contains invalid values that result in a bad vector orientation.

Possible Impacts

Unable to use the Coordinate System.

What You Should Do

Set the Coordinate System matrix to identity, and then edit the Coordinate System to reset the proper orientation and origin. To set the identity matrix, open the GRDSYSSPGCoordinateSystem table, and set the following column values:

$x_0, x_1, x_2, x_3 = (1, 0, 0, 0)$

$y_0, y_1, y_2, y_3 = (0, 1, 0, 0)$

$z_0, z_1, z_2, z_3 = (0, 0, 1, 0)$

$o_0, o_1, o_2, o_3 = (0, 0, 0, 1)$

If the Type value is 4 (Other), then set the AllowedHand value to 3 (Right and Left). Otherwise, set the AllowedHand value to 1 (Right).

SECTION 14

Hangers and Supports

This section contains Hangers and Supports database integrity messages.

Active entity with no Leg

Message

Active entity with no Leg.

Severity

High.

Detailed Description

Active entity does not have a route leg object associated.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Cannot modify the support object.

What You Should Do

A new route object should be assigned to the support object.

1. Open the model.
2. Select the support.
3. Assign a new route object to the support.
4. Compute the support object.

Active entity with no outputs

Message

Active entity with no outputs.

Severity

High.

Detailed Description

Support active entity does not have an output support object.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

No impact. Orphaned object remains in the database.

What You Should Do

Removal procedure to be determined.

Active entity with no supported entities

Message

Active entity with no supported entities.

Severity

High.

Detailed Description

Active entity does not have a supported entity (pipe/HVAC/cableway/and so on) associated.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Modification of the resultant support object will generate an error.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj) to delete the support object in error.

Component without WBSProjectChild and WBSItemChild

Message

Component without WBSProjectChild and WBSItemChild.

Severity

High.

Detailed Description

Component without WBSProjectChild and WBSItemChild.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

The software will not work properly in an integrated environment.

What You Should Do

Update procedure to be determined.

Connection without support

Message

Connection without support.

Severity

High.

Detailed Description

Connection object exists without a parent support object.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Connection object becomes orphaned.

What You Should Do

1. Open the model.
2. Locate the connection object in a graphic view.
3. Delete the object.

Corrupted Hanger Connections

Message

Corrupted Hanger Connections.

Severity

High.

Detailed Description

There are two types of hanger connection objects:

- Intermediate connection objects are related to support components.
- External connection objects are related to route objects.

The hanger connection object also has a relation to the route object.

This error identifies the parent support objects whose external connection objects are not related to a route object. It also identifies support objects not having external connection objects.

Possible Cause

Some workflows in the route task may have caused the connection to lose its relation to the route object.

Possible Impacts

Hanger connections will be recreated the next time the support object is recomputed if the connections do not exist or if they do not have the required relations. This DBI script detects and repairs the hanger connections at an early stage before the support object is recomputed.

What You Should Do

1. Open the model.
2. Backup the model.
3. Run the **DBI** command to detect the support object whose hanger connections are not working or are not present.
4. Run the **DB Clean** command to repair the problematic support object, creating hanger connections with the required relations.
5. Save the session.

Duplicate relations exist in the database

Message

Hangers & Supports duplicate relations exist in the database.

Severity

High.

Detailed Description

Duplicate relations exist between a set of two objects in the database.

Possible Cause

This problem is caused by creating the same relation between the same set of objects without verifying the existence of the relation.

Possible Impacts

None.

What You Should Do

Run the **Clean Database** custom command, select the objects, and then click **Clean Now**. This operation fixes all the duplicate relations for the object in question.

Error code 63 - unspecified error description

Message

Error code 63 - unspecified error description.

Severity

High

Detailed Description

Objects in SupportHasComponent HgrSupport_RSLT are not in same permission group.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

Modification of the resultant support object will generate an error.

What You Should Do

Run the **Clean Database** custom command to fix the problem.

Extra/Orphaned group monitors exist

Message

Extra/Orphaned group monitors exist

Severity

Crucial

Detailed Description

- **Extra group monitors exist** — For a single group criterion, more than one group monitor was created for it.
- **Orphaned group monitors exist** — A group monitor was created, but it is not related to any part.
 - If duplicated group monitors exist, one of them will be posted to be repaired.
 - If orphaned group monitors exist and no duplicated group monitor exists, one of orphaned group monitors will be posted to minimize the entries in the DB.

Possible Cause

Unknown


Possible Impacts

- Extra group monitors can cause parts to have the same name if part position index is used in naming.
- Orphaned group monitors waste database resources.

What You Should Do

Delete these objects by running the **Clean Database** custom command.

During this process, part names might be updated if they are related to extra group monitors.

 **NOTE** To perform this step, you must have write permission.

Hierarchical Loop Detected

Message

Hierarchical Loop Detected.

Severity

High.

Detailed Description

A support and its children are connected through the `SupportHasComponents` relationship. If there is more than one of these relationships, a hierarchical loop will be detected.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

The object may not display in the **Workspace Explorer** and graphic view, as it is not connected to the project root.

What You Should Do

Select the object in a graphic view or in the **Workspace Explorer**, and delete it. Or, set the object parent to the project root.

Joint exists without a support

Message

Joint exists without a support.

Severity

High.

Detailed Description

Support joint object becomes orphaned without a support object.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

HgrJoint object becomes orphaned.

What You Should Do

Removal procedure to be determined.

Object has Different Permission Group than the Parent Object

Message

Object has different permission group than the parent object.

Severity

Normal

Detailed Description

Children of a support component or another support object have a different permission group than the parent support object.

Possible Cause

Support objects and support components are modeled using different permission groups.

Possible Impacts

If you are working with a parent PG that does not have access to the child support object, you may not be able to modify the child.

What You Should Do

To correct the permission groups for child objects, open the model, and run the **Clean Database** custom command (ProgID: **SP3DCleanDatabaseCmd.CCcheckObj**). Select the target objects and then click **Clean Now**.

Occurrence Assembly without part

Message

Occurrence Assembly without part.

Severity

High.

Detailed Description

Occurrence assembly does not have a part associated in the catalog.

Possible Cause

De-synchronization between the catalog and model. The support definition might have been deleted in the catalog.

Possible Impacts

You will not be able to select the support object and view the properties.

What You Should Do

The model should be synchronized with the modified catalog. Invalid support objects will be put into the To Do list.

1. Open the Project Management task.
2. Select the model.

3. Click **Tools > Synchronize Model with Catalog** to perform synchronization between the model and catalog.

Orphaned Hanger Port(s)

Message

Orphaned Hanger Port(s).

Severity

Normal.

Detailed Description

Hanger port was created but it is not related to a parent object.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

The hanger port becomes orphaned.

What You Should Do

Run the **Clean Database** custom command to fix the problem.

Support as an assembly child, but not being a parent

Message

Support as an assembly child, but not being a parent.

Severity

High.

Detailed Description

On the **Assembly** tab (in the **Workspace Explorer**), the support is an assembly child, but no object is associated with it as an assembly child.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

The software will not be able to list the assembly child associated with a certain support.

What You Should Do

The support should be removed from the assembly hierarchy if the support does not have any child in the assembly hierarchy. Removal procedure to be determined.

Support Component with no Support

Message

Support Component with no Support.

Severity

Crucial.

Detailed Description

Support component does not have a parent support associated with it.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Support component becomes orphaned. You cannot view the **Properties** dialog box of the support component.

What You Should Do

1. Open the model.
2. Delete the support component object.

Support exists without active entity

Message

Support exists without active entity.

Severity

High.

Detailed Description

Support does not have an active entity associated, although the support is the output of the active entity.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Getting the support object properties is not possible. Modification will not be possible.

What You Should Do

Removal procedure to be determined.

Support exists without joint

Message

Support exists without joint.

Severity

High.

Detailed Description

Support exists without a joint. Typically this will happen for the design support.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts**What You Should Do**

Support object needs to be re-evaluated.

1. Open the model.
2. Re-compute the support object.

Support has no components

Message

Support has no components.

Severity

Crucial.

Detailed Description

Support does not have any associated support component object.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

Support does not work properly, and reports do not generate proper results.

What You Should Do

The support object should be re-computed to recall the missing support components.

1. Open the model.
2. Re-compute the support object.

Support not associated to a definition

Message

Support not associated to a definition.

Severity

High.

Detailed Description

A placed support is not able to find the associated support definition in the catalog.

Possible Cause

The cause may be de-synchronization between the catalog and model. The support definition might have been deleted in the catalog.

Possible Impacts

You will not be able to select the support object and view the properties.

What You Should Do

Synchronize the catalog and model using the command in Project Management.

Support without CoordinateSystem

Message

Support without CoordinateSystem.

Severity

High.

Detailed Description

A support exists without an associated local coordinate system.

Possible Cause

A model from a previous version was not properly migrated.

Possible Impacts

The support location for supports created with the **Place Support by Structure** command will not be reported.

What You Should Do

Run the **Clean Database** custom command to fix the problem.

Support without Name

Message

Support without Name.

Severity

High.

Detailed Description

Support object does not have a name.

Possible Cause

Coding or data model propagation errors in an earlier version.

Possible Impacts

Unable to modify the name of the support.

What You Should Do

Update the name of the support.

1. Open the model.
2. Select the object.
3. Update the name by selecting the name as either user-defined or rule-defined.

SupportPort without Support

Message

SupportPort without Support.

Severity

High.

Detailed Description

Support port object exists without a parent support object.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Support port object becomes orphaned.

What You Should Do

Removal procedure to be determined.

SupportPort without SupportComponent

Message

SupportPort without SupportComponent.

Severity

High.

Detailed Description

Support port object exists without a parent support component object.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Support port object becomes orphaned.

What You Should Do

Removal procedure to be determined.

Wrong ComponentToSupportedPort Relation

Message

Wrong ComponentToSupportedPort Relation.

Severity

Crucial.

Detailed Description

A ComponentToSupportedPort relation exists between the support and RouteOccur instead of RouteFeature.

Possible Cause

Unknown.

Possible Impacts

Modification of the resultant support object will generate an error.

What You Should Do

Run the **Clean Database** custom command to fix the problem.

SECTION 15

Hole Management

This section contains Hole Management database integrity messages.

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The Approved hole is missing a relationship to the structure part being cut

Message

The Approved hole is missing a relationship to the structure part being cut.

Severity

Crucial.

Detailed Description

To be able to place the hole on the To Do List when a planning seam or straking seam is applied to the structure, a new relationship was needed between the hole and the structure part being cut. This relationship is missing from the hole in error.

Possible Cause

The hole may have been created in an older version of the software, and the migration command failed to create the relationship.

Possible Impacts

If a planning seam or straking seam is applied to the structure being cut, the hole will not be placed on the To Do List.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command in order to place the proper relationship.

The catalog fitting is missing a connection to the pipe part

Message

The catalog fitting is missing a connection to the pipe part.

Severity

Crucial.

Detailed Description

To allow a fitting placed by Hole Management to be spooled, a connection must exist between the pipe part and the fitting. The fitting for the hole in error is missing the connection to the pipe part that allows it to be spooled along with the pipe part.

Possible Cause

The hole may have been created in an older version of the software, and the migration command failed to create the connection.

Possible Impacts

If the connection does not exist, then the catalog fitting cannot be spooled with the pipe part.

What You Should Do

1. Open the model.
2. Run the HoleMgmt V6 middle tier migration command (HMOV6Migration.HoleFittingPartsMigration).

This command updates the older objects with the new relationship.

The center flange is missing a connection to the pipe part

Message

The center flange is missing a connection to the pipe part.

Severity

Crucial.

Detailed Description

To allow a fitting placed by Hole Management to be spooled, a connection must exist between the pipe part and the fitting. The center flange of the hole in error is missing the connection to the pipe part that allows it to be spooled along with the pipe part.

Possible Cause

The hole may have been created in an older version of the software, and the migration command failed to create the connection.

Possible Impacts

If the connection does not exist, then the center flange cannot be spooled with the pipe part.

What You Should Do

1. Open the model.
2. Run the HoleMgmt V6 middle tier migration command (HMOV6Migration.HoleFittingPartsMigration).

This command updates the older objects with the new relationship.

The hole has an invalid application value

Message

The hole has an invalid application value.

Severity

Crucial.

Detailed Description

The hole application property has an invalid value. This property is codelisted, and a value outside of the range of the codelist has been stored.

Possible Cause

While this situation has been seen to happen only once, it is currently unknown how this problem can occur.

Possible Impacts

The rules and smart occurrences used to generate the hole may not pick the proper settings.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command in order to reset the property to a valid value.

The hole has an invalid cut status value

Message

The hole has an invalid cut status value.

Severity

Fatal.

Detailed Description

The hole cut status property has an invalid value. This property is codelisted, and a value outside of the range of the codelist has been stored.

Possible Cause

While this situation has been seen to happen only once, it is currently unknown how this problem can occur.

Possible Impacts

The hole cannot be cut. This situation may also prevent you from opening the property pages for the hole to set a valid value.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command in order to reset the property to a valid value.
3. Open the property page for the hole in error, and set the cut status to the required value.

The hole has an invalid fitting type value

Message

The hole has an invalid fitting type value.

Severity

Crucial.

Detailed Description

The hole fitting type property has an invalid value. This property is codelisted, and a value outside of the range of the codelist has been stored.

Possible Cause

While this situation has been seen to happen only once, it is currently unknown how this problem can occur.

Possible Impacts

The wrong type of fitting may be created. This situation may also prevent you from opening the property pages for the hole to set a valid value.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command in order to reset the property to a valid value.
3. Open the property page for the hole in error, and set the fitting type to the required value.

The hole has an invalid status value

Message

The hole has an invalid status value.

Severity

Fatal.

Detailed Description

The hole status property has an invalid value. This property is codelisted, and a value outside of the range of the codelist has been stored.

Possible Cause

While this situation has been seen to happen only once, it is currently unknown how this problem can occur.

Possible Impacts

The hole cannot be cut. This situation may also prevent you from opening the property pages for the hole to set a valid value.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command in order to reset the property to a valid value.
3. Open the property page for the hole in error, and set the hole status to the required value.

The hole is missing the clearance rule to be used

Message

The hole is missing the clearance rule to be used.

Severity

Fatal.

Detailed Description

A clearance rule is used to help determine the size of the hole to be cut. The relationship to a clearance rule is missing from the hole in error.

Possible Cause

While this situation has been seen to happen only once, it is currently unknown how this problem can occur as long as clearance rules are bulk loaded into the catalog.

Possible Impacts

The geometry of the hole cannot be generated without a clearance rule. This situation will prevent any cut from being placed on the structure.

What You Should Do

1. Open the model.
2. Open the property page for the hole in error, and select a clearance rule to be used.

The hole is missing the fitting selection rule to be used

Message

The hole is missing the fitting selection rule to be used.

Severity

Crucial.

Detailed Description

The property to use a fitting selection rule has been set on the hole in error, and there is no relationship to a fitting selection rule.

Possible Cause

While this situation has been seen to happen only once, it is currently unknown how this problem can occur as long as fitting selection rules are bulk loaded into the catalog.

Possible Impacts

The proper fitting will not be created when the hole is cut.

What You Should Do

1. Open the model.
2. Open the property page for the hole in error, and select a fitting selection rule to be used.

The object should be in the HoleManagement PermissionGroup

Message

The object should be in the HoleManagement PermissionGroup.

Severity

High.

Detailed Description

There is a Permission Group for Hole Management objects. This object should be in the Hole Management Permission Group, but it is not.

Possible Cause

The object may have been created prior to the creation of the Hole Management Permission Group.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command.
3. Select the object in the list of objects.
4. Click **Clean Now** to place the object in the Hole Management Permission Group.

The pipe part is missing a connection to the fitting

Message

The pipe part is missing a connection to the fitting.

Severity

Crucial.

Detailed Description

To allow a fitting placed by Hole Management to be spooled, a connection must exist between the pipe part and the fitting. The pipe part is missing the connection to the fitting of the hole in error that allows the fitting to be spooled along with the pipe part.

Possible Cause

The hole may have been created in an older version of the software, and the migration command failed to create the connection.

Possible Impacts

If the connection does not exist, then the fitting cannot be spooled with the pipe part.

What You Should Do

1. Open the model.
2. Run the HoleMgmt V6 middle tier migration command (HMOV6Migration.HoleFittingPartsMigration).

This command updates the older objects with the new relationship.

The sketched hole is missing the relationship to its outline

Message

The sketched hole is missing the relationship to its outline.

Severity

Fatal.

Detailed Description

A new relationship was added between the hole and the outline you sketched. The hole in error can no longer access the outline through the expected relationship.

Possible Cause

The hole may have been created in an older version of the software, and the migration command failed to create the new relationship.

Possible Impacts

The geometry of the hole is represented by the outline that you sketched. If the relationship is missing, then the hole cannot be cut.

What You Should Do

1. Open the model.
2. Run the HoleMgmt V6 middle tier migration command (HMOV6Migration.SketchHoleMigration).

This command updates the older objects with the new relationship.

SECTION 16

Interference Checking

This section contains Interference Checking database integrity messages.

Bad part Interference has no part

Message

Bad part Interference has no part.

Severity

High.

Detailed Description

The interference object does not have a part associated to it.

The DBIntegrity report includes this message when an invalid part in the database is deleted, and Interference Checking does not remove the type of interference associated with it.

Possible Causes

- The DBIntegrity report was generated while Interference Checking was running and not completed.
- Interference Checking could not delete the associated interference when the invalid part was deleted.

Possible Impacts

- The Interference Checking reports and the list view may not show the same results.
- Reports may show some interferences that are not possible to find or locate in the model.

What You Should Do

1. Identify the cause for the problem. See the **Possible Causes** section for details.
2. When the Interference Checking process finishes, re-run the **Check Database Integrity** custom command and the DBIntegrity report.
3. Use the **Clean Database** custom command to delete the interference.

Interference has only one part and not in Todo List

Message

Interference has only one part and not in Todo List.

Severity

High.

Detailed Description

The interference object is not associated with both the interfering objects. The interference is not in the To Do list.

Possible Cause

When an interfering object was deleted, the interference object associated to it was not automatically deleted.

Possible Impacts

The interference list view and reports on interferences may not show the same results. Reports may show some interferences that are not visible in the interference list view.

What You Should Do

1. Use the **Clean Database** custom command to delete the interference.
2. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.

SECTION 17

Molded Forms

This section contains Molded Forms database integrity messages.

A Beam does not have a related BeamSystemAE

Message

A Beam does not have a related BeamSystemAE.

Severity

Crucial.

Detailed Description

A beam does not have a related beam system active entity (AE): Missing the GeometryToBeam relationship to BeamSystem_AE for BeamSystem.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-compute to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A BracketByPlane PlateSystem does not have a ReferenceCollection to its symbol

Message

A BracketByPlane PlateSystem does not have a ReferenceCollection to its symbol.

Severity

Crucial.

Detailed Description

A BracketByPlane PlateSystem requires a ReferenceCollection, which provides links to the symbol information. The ReferenceCollection has relationships to the symbol inputs and other classes required to properly create the plate system and its geometry.

Possible Cause

Unknown.

Possible Impacts

The display of the PlateSystem may not be correct. This problem can affect other related objects.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the BracketByPlane PlateSystem.
3. Verify that it has a valid symbol and modify it, if necessary. Or, select the object, and perform a re-compute to update it.
4. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
5. If the object is still posted, contact Smart 3D Support.

A BracketByPlane PlateSystem does not have the necessary two points defined

Message

A BracketByPlane PlateSystem does not have the necessary two points defined.

Severity

Crucial.

Detailed Description

A BracketByPlane PlateSystem requires two points for proper placement on the identified supports.

Possible Cause

Unknown.

Possible Impacts

The geometry and display of the PlateSystem will not be correct. This problem can affect other related objects.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the BracketByPlane PlateSystem, select the points, and make any other necessary modification.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A BracketByPlane PlateSystem has too many points defined

Message

A BracketByPlane PlateSystem has too many points defined.

Severity

Crucial.

Detailed Description

A BracketByPlane PlateSystem requires two points for proper placement on the identified supports. In this case, there are more than two points defined.

Possible Cause

Unknown.

Possible Impacts

The geometry and display of the PlateSystem will not be correct. This problem can affect other related objects.

What You Should Do

1. Open the model.

2. In the Molded Forms task, select the BracketByPlane PlateSystem, select the points, and make any other necessary modification.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A BracketByPlane PlateSystem has too many relationships to ReferenceCollections

Message

A BracketByPlane PlateSystem has too many relationships to ReferenceCollections.

Severity

Crucial.

Detailed Description

A BracketByPlane PlateSystem requires a ReferenceCollection, which provides links to the symbol information. In this case, there are too many relationships, so the right one may not always be used. The ReferenceCollection has relationships to the symbol inputs and other classes required to properly create the plate system and its geometry.

Possible Cause

Unknown.

Possible Impacts

The display of the PlateSystem may not be correct. This problem can affect other related objects.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the BracketByPlane PlateSystem.
3. Verify that the PlateSystem has a valid symbol, and modify it, if necessary. Or, select the object, and perform a re-compute to update it.
4. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
5. If the object is still posted, contact Smart 3D Support.

A BracketByPlane PlateSystem's point is not an input to the symbol

Message

A BracketByPlane PlateSystem's point is not an input to the symbol.

Severity

Crucial.

Detailed Description

A BracketByPlane PlateSystem requires two points for proper placement on the identified supports. These points must also be inputs to the symbol. The relationship to the symbol is missing.

Possible Cause

Unknown.

Possible Impacts

The geometry and display of the PlateSystem will not be correct. This problem can affect other related objects.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the BracketByPlane PlateSystem, select the points, and make any other necessary modification. Or, perform a recomputation on the PlateSystem.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A connection has less than two ports

Message

A connection has less than two ports.

Severity

Crucial.

Detailed Description

A connection has less than two ports: Missing one or more ConnHasPorts relationship(s) to StructPort for StructPhysicalConnection, AssemblyConnection, StructConnection. In other words, the connection does not have two ports.

Possible Causes

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task:
 - If it is a user-defined connection, select the connection, and add a port.
 - If it is a generated connection, delete the object. It will automatically be re-created.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A Connection has more than 2 Ports associated to it

Message

A Connection has more than 2 Ports associated to it.

Severity

Crucial.

Detailed Description

A Connection has more than two ports associated to it.

There are more than the required two ConnHasPorts relationship(s) to StructPort for StructPhysicalConnection, AssemblyConnection, and StructConnection.

Cases have been found where one of the ports has two identical relationships to the connection.

Possible Causes

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task:
 - If it is a user-defined connection, select the connection, and remove a port.
 - If it is a generated connection, delete the object. It will automatically be re-created.

3. If this step is unsuccessful, a script may be necessary to delete the additional relationship.
4. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
5. If the object is still posted, contact Smart 3D Support.

A CreatePlatePartAE does not have a related plane

Message

A CreatePlatePartAE does not have a related plane.

Severity

Fatal.

Detailed Description

A create plate part active entity (AE) does not have a related plane: Missing the StructGeometryHasPorts relationship to IJStructGeometry (various) for StructPort_AE.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Open the model.
2. In the Molded Forms task, modify the object by selecting a plane, and click **Finish**. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A CreatePlatePartAE does not have any related trim boundaries

Message

A CreatePlatePartAE does not have any related trim boundaries.

Severity

Crucial.

Detailed Description

A create plate part active entity (AE) does not have any related trim boundaries: Missing the TrimBoundaries relationship to various for CreatePlatePart_AE not related to SmartPlates. The SmartPlates may have "natural" boundaries.

Possible Cause

Unknown.

Possible Impacts

None.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and add boundaries to it. Click **Finish**.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A Design- or Planning-split operation exists with no related operand

Message

A Design- or Planning-split operation exists with no related operand.

Severity

High.

Detailed Description

A design split or a planning split is missing its operand. The operand is a required input and is typically a Plate or Profile System.

Possible Causes

Unknown.

Possible Impacts

A loose end exists in the model.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.

3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

A Design- or Planning-split operation with a seam has less than two results

Message

A Design- or Planning-split operation with a seam has less than two results.

Severity

Fatal.

Detailed Description

Design-split operations or planning-split operations that have seams (not connections or seam points) as inputs and that are not classified as penetrations per their connections require more than one result.

Possible Cause

Unknown.

Possible Impacts

Improper part development.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A Design- or Planning-split operation without a seam does not have one result

Message

A Design- or Planning-split operation without a seam does not have one result.

Severity

Fatal.

Detailed Description

A Design split operation or Planning split operation does not have one seam, indicating that there is no split to be performed. In such cases, the split operation (AE) should have one and only one geometry as a result.

Possible Causes

Unknown.

Possible Impacts

Improper part development.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A Flanged Plate AE exists without a relationship to a Plate

Message

A Flanged Plate AE exists without a relationship to a Plate.

Severity

Normal.

Detailed Description

An orphaned Flanged Plate Active Entity exists without a relationship to a plate being flanged.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Delete the object by running the **Clean Database** custom command.

A Flanged Plate exists without a symbol for the flange

Message

A Flanged Plate exists without a symbol for the flange.

Severity

Crucial.

Detailed Description

A Plate (Bracket) associated to a Flanged Plate Active Entity does not have an association to a symbol defining the flange.

Possible Cause

Unknown.

Possible Impacts

The flange will not be processed, and errors may occur.

What You Should Do

1. Modify the plate being flanged by redefining the symbol.
2. Re-run the DB Integrity check.
3. If the problem still exists and the plate is as expected (needed), report the situation to Smart 3D Support. Revisions may be necessary.

A Flanged Plate exists without the start or end points defined

Message

A Flanged Plate exists without the start points defined.

Or

A Flanged Plate exists without the end points defined.

Severity

Crucial.

Detailed Description

A Plate (Bracket) associated to a Flanged Plate Active Entity and a symbol is missing the relationship to the start or end points.

Possible Cause

Possible causes include:

- Symbol inputs not correctly defined.
- Transaction aborted during definition of the Flanged Plate.
- Unknown.

Possible Impacts

The flange will not be processed, and errors may occur.

What You Should Do

1. Verify that the symbol being used is properly defined.
2. Modify the plate being flanged by redefining the symbol or attempting a recomputation.
3. Re-run the DB Integrity check.
4. If the problem still exists and the plate is as expected (needed), report the situation to Smart 3D Support. Revisions may be necessary.

A Flanged Plate exists without updated output

Message

A Flanged Plate exists without updated output.

Severity

Crucial.

Detailed Description

A Plate (Bracket) associated to a Flanged Plate Active Entity does not have its output properly updated.

Possible Cause

Possible causes include:

- Symbol was not defined properly.
- Computation did not complete.
- Unknown.

Possible Impacts

The flange will not be processed, and errors may occur.

What You Should Do

1. Check the symbol definition.

2. Modify the plate.
3. Recompute the plate.
4. Re-run the DB Integrity check.
5. If the problem still exists, report the situation to Smart 3D Support. Revisions may be necessary.

A GeneratePlatePart_AE does not have a related PlateSystem

Message

A GeneratePlatePart_AE does not have a related PlateSystem.

Severity

Crucial.

Detailed Description

A generate plate part active entity (AE) does not have a related plate system: Missing the GeneratePlatePart_OPRND relationship to PlateSystem for GeneratePlatePart_AE.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A LandCrvPoint does not have a related PointOnSurfByTwoCoords_AE

Message

A LandCrvPoint does not have a related PointOnSurfByTwoCoords_AE.

Severity

Fatal.

Detailed Description

A landing curve point does not have a related point on surface by the two coordinates active entity (AE): Missing the PointOnSurface relationship to PointOnSurfByTwoCoords_AE for CLandCrvPoint.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

A LandCrvTableAE does not have related LandCrvPoints

Message

A LandCrvTableAE does not have related LandCrvPoints.

Severity

Fatal.

Detailed Description

Points defining the landing curve are missing for the Profile or Seam by Table: Missing the DefPoints relationship to CLandCrvPoint for LandCrvTable_AE.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

A Landing Curve AE does not have the Parent0 relationship

Message

A Landing Curve AE does not have the Parent0 relationship.

Severity

Crucial.

Detailed Description

A landing curve active entity (AE) does not have the Parent0 relationship. Possible situations:

- Missing the LandCrvIntParent0 relationship to IJSurfaceBody (various) for LandCrvIntersect_AE.
- Missing LandCrvOffParent0 relationship to IJSurfaceBody (various) for LandCrvOffset_AE.
- Missing LandCrvProjParent0 relationship to IJSurfaceBody (various) for LandCrvProject_AE.

Possible Causes

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.

2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

A Landing Curve AE does not have the Parent1 relationship

Message

A Landing Curve AE does not have the Parent1 relationship.

Severity

Crucial.

Detailed Description

A landing curve active entity (AE) does not have the Parent1 relationship:

- Missing the LandCrvIntParent1 relationship to IJSurfaceBody (various) for LandCrvIntersect_AE
- Missing LandCrvOffParent1 relationship to IJSurfaceBody (various) for LandCrvOffset_AE

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A Landing Curve AE does not have the Parent2 relationship

Message

A Landing Curve AE does not have the Parent2 relationship.

Severity

Crucial.

Detailed Description

A landing curve active entity (AE) does not have the Parent2 relationship: Missing the LandCrvProjParent2 relationship to IJSurfaceBody (various) for LandCrvProject_AE.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A LandingCurve ActiveEntity does not have a related base curve

Message

A LandingCurve ActiveEntity does not have a related base curve.

Severity

Fatal.

Detailed Description

There is no definition of the base curve: Missing the LandCrvBase relationship to WireBody2 for LandCrvIntersect_AE, LandCrvOffset_AE, LandCrvProject_AE, LandCrvTable_AE, LandCrvER_AE.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A LandingCurve ActiveEntity does not have a related geometry

Message

A LandingCurve ActiveEntity does not have a related geometry.

Severity

Crucial.

Detailed Description

A landing curve active entity (AE) does not have a related geometry: Missing the resultant generated geometry (GeometryGeneration_RSLT1 relationship) to LandCurve, ProfileLandCrv, or ProfilePartPath for LandCrvIntersect_AE, LandCrvOffset_AE, LandCrvProject_AE, LandCrvTable_AE, LandCrvER_AE

Possible Cause

Unknown.

Possible Impacts

None.

What You Should Do

1. Open the model.
2. If the object is on the To Do List, perform the re-computation. Or, switch to the Molded Forms task, select the object, and perform a re-computation.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A Name has not been defined for this object

Message

A Name has not been defined for this object.

Severity

Normal.

Detailed Description

The object has not been given a name.

Possible Cause

A Naming Rule may not have been identified for the parent system or is not available. A user may have overridden the Naming Rule and then removed the name.

Possible Impacts

The object without a name may be difficult to work with.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A Plate bound operation exists with no related operand

Message

A Plate bound operation exists with no related operand.

Severity

Fatal.

Detailed Description

The Plate bound operation (OID begins with 0010A1F0) does not have an operand.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Correct all the parts on the To Do List that have boundary problems.

2. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.

For the problems that remain:

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

A Plate bound operation exists with no related result

Message

A Plate bound operation exists with no related result.

Severity

Crucial.

Detailed Description

A plate bound operation (OID begins with 0010A1F0) exists with no related result.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A plate bound to another plate is missing the connection

Message

A plate bound to another plate is missing the connection.

Severity

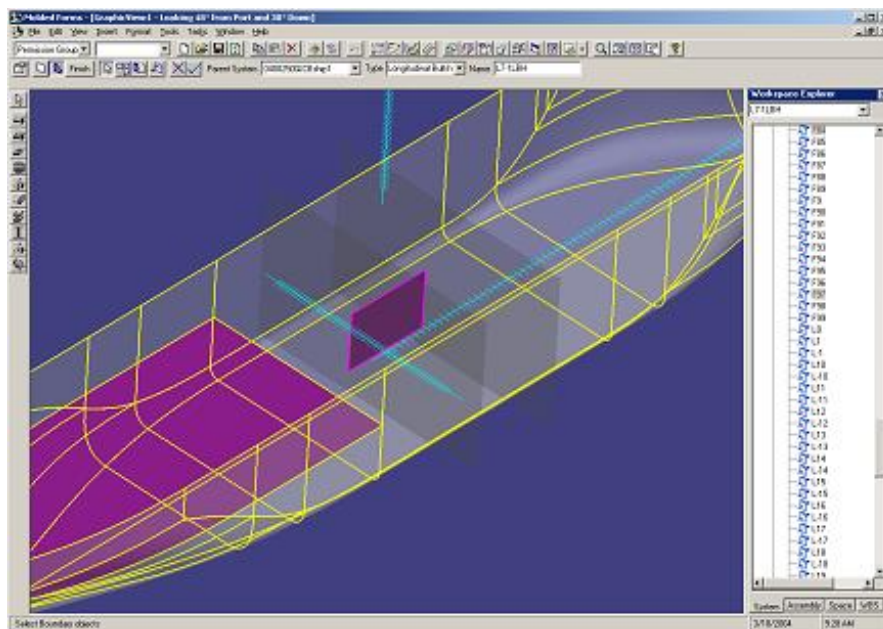
Crucial.

Detailed Description

A plate bound to another plate is missing the connection to the bounding object. The plate system in the database will likely fail in detailing due to Molded Forms modeling errors.

Possible Cause

- The most common cause for this error is bounding a plate system by the semi-infinite plane of another plate system rather than its light part. Because the light part geometries do not intersect, no logical connection is created at the boundary, and the bounded part will fail to detail. The following graphic shows a longitudinal bulkhead bounded by a semi-infinite plane (a deck).



- Another cause of this message is a plate system having another plate system in its boundary list that is not actually used as a boundary. This situation can only occur when a sketched boundary does not cross all necessary boundaries, and as a result, some boundaries are not used. TR56504 was filed for this condition.

Possible Impacts

1. If the bounded plate system does not have a connection to the bounding object, the part cannot be successfully detailed.
2. Additional plate systems may have been added to the boundary list.

What You Should Do

1. Open the model.

2. In the Molded Forms task, rebound the plate with a reference plane if the previous object used no longer overlaps the bounded plate.
3. Remove any unnecessary boundaries.
4. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
5. If the object is still posted, contact Smart 3D Support.

A Plate could be missing a sketched boundary

Message

In Versions 6 and 6.1: Object does not have all necessary Information.

In Version 7: A Plate could be missing a sketched boundary.

Severity

Crucial.

Detailed Description

A Plate could possibly be missing a sketched boundary. The check finds bounded plates on the To Do List and reports them if they do not have a relationship to a sketch. The plate may or may not require a sketch.

The check was created in support of TR 104211. If necessary, you can verify the problem of a bounded plate by determining if this condition existed in a backup database, preferably one that was created prior to the last date modified of the plate or its PlateBound_AE (operation).

Possible Cause

Unknown. It is thought that ungrouping and regrouping may be the cause.

Possible Impacts

The plate will not update correctly.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A Plate cutout operation exists with no related operator

Message

A Plate cutout operation exists with no related operator.

Severity

Crucial.

Detailed Description

A Plate cutout operation exists with no related operator: Missing the PlateCutout_OPER1 relationship to the Sketch (reference proxy – symbol) information for PlateCutout_AE.

To facilitate TR 104211, the current DB Integrity check has been changed to post the Plate cutout operation (PlateCutout_AE) with an action of DELETE.

In order to make it more convenient for finding and posting such cases, this particular query has been moved to the CheckAEWithSketches.sql file.

Possible Cause

Unknown.

Possible Impacts

When the sketch information for an opening on a Plate is missing, it is no longer possible to update parts on the plate system or place new openings.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using the **Clean Database** custom command.

A plate part does not have a related PlatePartReportData object

Message

A plate part does not have a related PlatePartReportData object.

Severity

Crucial.

Detailed Description

Missing the GeometryGeneration_RSLT1 relationship to LandCurve, ProfileLandCrv, or ProfilePartPath for LandCrvIntersect_AE, LandCrvOffset_AE, LandCrvProject_AE, LandCrvTable_AE.

Possible Cause

Copying a system before Version 4.

Possible Impacts

The weight and center of gravity may not be calculated and will be invalid because the report data does not exist.

What You Should Do

1. Delete the plate part, and re-create it.
2. Run the stAddReport.Data.Command middle tier migration script.

A Plate system exists with no related planning split or light part

Message

A Plate system exists with no related planning split or light part.

Severity

Crucial.

Detailed Description

A Plate system exists with no relationship to a planning-split active entity nor to a design-split active entity: Missing StructOperation_OPRND relationship to PlatePlanningSplit_AE for leaf PlateSystem and missing a relationship to the CPlateDesignSplit_AE.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support. Delete the object using one of the following methods:

- Select the object in the **Workspace Explorer**, and delete it.
- Run the **Clean Database** custom command to delete the object.

A PlateGeometry does not have a related PlanningSplitAE

Message

A PlateGeometry does not have a related PlanningSplitAE.

Severity

Crucial.

Detailed Description

A plate geometry does not have a related Planning Split active entity (AE): Missing the StructOperation_RSLT1 relationship to PlatePlanningSplit_AE for the light PlateGeometry of the PlatePart, or to GeneratePlatePart_AE for the new immediate_thickening code.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A PlateGeometry object exists without having a related ActiveEntity or Structural Entity

Message

A PlateGeometry object exists without having a related ActiveEntity or Structural Entity.

Severity

High.

Detailed Description

The Plate geometry (OID begins with 0010A1F3) does not have a relationship to an Entity (Plate System, ProfileSystem, PlatePart) or as an input to an appropriate Active Entity (AE).

Possible Cause

This problem has been found to occur when the original Part geometry was unable to thicken. When it was able to thicken, the plate geometry was replaced with a plate part geometry, leaving the plate geometry orphaned. This source code for this case is being updated in 06.01.22.

Possible Impacts

Based on recent findings, there should be no impact to you.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Run the **Clean Database** custom command to delete the object.

A PlatePartGeometry does not have a related CreatePlatePart_AE

Message

A PlatePartGeometry does not have a related CreatePlatePart_AE.

Severity

Crucial.

Detailed Description

A plate part geometry for a StandAlone PlatePart does not have a related create plate part active entity (AE): Missing the GeometryGeneration_RSLT1 relationship to CreatePlatePart_AE for PlatePartGeometry on standalone plate.

Possible Cause

Unknown.

Possible Impacts

- You cannot manipulate the object itself or other objects related to it.
- The plate part cannot be displayed graphically.
- The weight and center of gravity will be invalid.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A PlateSystem does not have a related MoldedSpec

Message

A PlateSystem does not have a related MoldedSpec.

Severity

High.

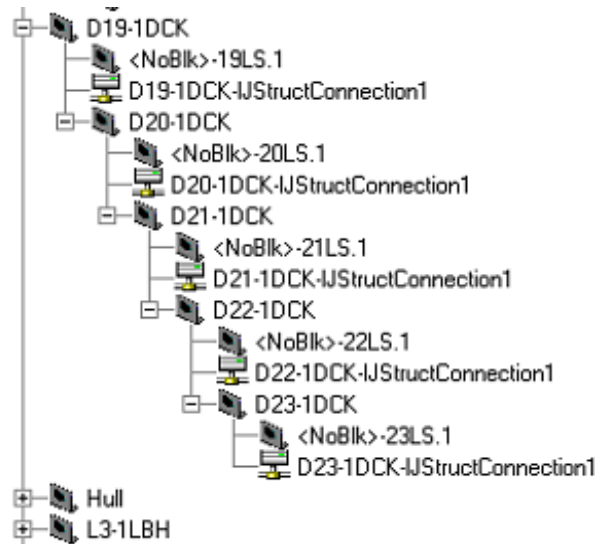
Detailed Description

A plate system does not have a related molded specification: Missing the SystemHasSpec relationship to SiteProxy (IJDMoldedSpec) for root plate systems.

Possible Causes

This error occurs under two conditions.

- Condition 1 (Refer to What You Should Do, Action 1): The first condition occurs when plate systems are assigned as children to other plate systems, and the plate system hierarchy is more than three layers deep. The following graphic shows a plate system hierarchy with too many levels. Plate systems inherit properties like Molded Specification, Material, and Thickness from their parents. The data integrity checks only go up two levels looking for a root plate system to obtain the Thickness property. Thus, if the plate system is deeper than two levels below the root, no thickness property is found by the integrity check.



- Condition 2 (Refer to Refer to What You Should Do, Action 2): The second condition occurs when a plate system is created as the child of another plate system and later moved to a different location in the hierarchy where it becomes a root plate system. These plate systems will not have a Molded Specification or any material properties assigned.

Possible Impacts

- Thickening and display of light parts will fail.
- Referencing to the far side will not be accurate.
- Placing equipment may be done at the wrong location.
- The weight and center of gravity may not be calculated and will be invalid.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.

Action 1 (Refer to Detailed Description, Condition 1): If the plate system is a child of another plate system, move the plate system up in the hierarchy. If the plate system becomes a root system when it is moved up in the hierarchy, modify its properties to assign a Molded Specification and Material properties. The Specification that was previously inherited from the parent is not automatically assigned when the plate system is changed to a root system. Note that this action is not absolutely necessary because the plate system with the message will detail and manufacture correctly in its current state.

Action 2 (Refer to Detailed Description, Condition 2): If the plate system is a root plate system, modify its properties to assign a Molded Specification and Material properties.

3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A PlateSystem exists with less than 3 or more than 5 shared attributes

Message

A PlateSystem exists with less than 3 or more than 5 shared attributes.

Severity

Crucial.

Detailed Description

A Plate System exists with less than three or more than five shared attributes.

Possible Cause

Unknown.

Possible Impacts

None.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the plate system, and assign the required attributes.
3. Click **OK** on the **Properties** dialog box and **Finish** on the ribbon.
4. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
5. If the object is still posted, contact Smart 3D Support. If possible, explain how to duplicate the situation.

A point for BracketByPlane is not related to a PlateSystem

Message

A point for BracketByPlane is not related to a PlateSystem.

Severity

High.

Detailed Description

A point found on the relationship used for defining a BracketByPlane PlateSystem is not related to a PlateSystem. In this case, the point is related to other objects; therefore, no action is required.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.

A point for BracketByPlane is not related to a PlateSystem or any other object

Message

A point for BracketByPlane is not related to a PlateSystem or any other object.

Severity

Normal.

Detailed Description

A point found on the relationship used for defining a BracketByPlane PlateSystem is not related to a PlateSystem. In this case, the point is not related to any other objects other than the one that was supposed to be a PlateSystem. Because the point is not providing any expected information, you should delete the point.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

A PointOnSurfByTwoCoords_AE does not have a related base plate

Message

A PointOnSurfByTwoCoords_AE does not have a related base plate.

Severity

Fatal.

Detailed Description

A point on surface by two coordinates active entity (AE) does not have a related base plate: Missing the RefSurface relationship to PlateSystem for PointOnSurfByTwoCoords_AE.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

A profile does not have a related child connection

Message

A profile does not have a related child connection.

Severity

Crucial.

Detailed Description

A profile does not have a related child connection: Missing the SystemHierarchy relationship to a StructConnection for root ProfileSystem, root EdgeReinforcementSystem.

This situation verifies that a connection is being made for stiffening profile systems and edge reinforcement with their stiffened objects.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A profile part does not have a related ProfilePartReportData object

Message

A profile part does not have a related ProfilePartReportData object.

Severity

Crucial.

Detailed Description

Missing the ReportData relationship to ProfilePartReportData for StandAloneStiffenerPart and un-split (EdgeReinforcementProfilePart, StiffenerPart, BeamPart). "Un-split" in this case means it is STRUCT_ACTIVATED.

Possible Cause

Copying a system before Version 4.

Possible Impacts

The weight and center of gravity (CoG) may not be calculated and will be invalid because the report data does not exist.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A Profile split ActiveEntity does not have a related profile system

Message

A Profile split ActiveEntity does not have a related profile system.

Severity

Fatal.

Detailed Description

A profile split active entity (AE) does not have a related profile system: Missing the StructOperation_OPRND relationship to IJStructGeometry (ProfileSystem, EdgeReinforcementSystem and BeamSystem) for ProfileDesignSplit_AE.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

A Profile system exists with no related planning split or light part

Message

A Profile system exists with no related planning split or light part.

Severity

Crucial.

Detailed Description

A Profile system exists with no related planning split and/or light part geometry.

The Profile System should be an input to the PlanningSplit AE. The PlanningSplit AE should have a light part geometry as output.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

A ProfilePartCreation does not have a related base plate

Message

A ProfilePartCreation does not have a related base plate.

Severity

Fatal.

Detailed Description

A ProfilePartCreation does not have a related base plate: Missing the BasePlateSurface relationship to (PlateSystem, StandAlonePlatePart) for ProfilePartCreation.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.

3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A ProfilePartCreation does not have a related profile part

Message

A ProfilePartCreation does not have a related profile part.

Severity

Fatal.

Detailed Description

A profile part creation does not have a related profile part: Missing the SDInputGeometry relationship to (EdgeReinforcementProfilePart, StandAloneStiffenerPart) for ProfilePartCreation.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A ProfilePartGeneration_AE does not have a related plate system

Message

A ProfilePartGeneration_AE does not have a related plate system.

Severity

Crucial.

Detailed Description


A profile part generation active entity (AE) does not have a related plate system.

There are two relationships between the stiffener part and the plate system information.

- The PlateSubSystems_OPER relationship to Plate Parts is used to track when the thickness of any stiffened plate parts has changed so that the profile position can be re-evaluated.
- The StiffenedPlateGeometry_OPER relationship to the plate system geometries is used (after making the planning split) to track when the outlines of the stiffened parts have changed so that the parts cross can be re-evaluated.

Both of these relationships are important for keeping the profile part in the correct location as the plate model is changed. In other words, these relationships are required to make sure a stiffener part location responds properly when the thickness of the stiffened parts is changed.

This error has a defined automatic action, which is to recompute the affected stiffener part. This will re-create the correct relationships and update the position of the stiffener to account for plate thickness.

 **NOTE** This message only applies to stiffeners. It should not appear for a beam.

Possible Causes


This problem could be an indication that part of the migration from Version 6.1 to Version 7 was not performed or was unsuccessful. Version 7 introduced the new relationship StiffenedPlateGeometry_OPER and changed the type of object connected through PlateSubSystems_OPER.

There are no other known causes for this problem.

Possible Impacts

The primary impact of this problem is that the stiffener may not respond correctly if the thickness of the stiffened plate is changed and the stiffener is on the thickness side of the plate.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Check the box beside the profile entries to be fixed.
4. Click **Clean Now**.
 **TIP** Alternatively, the problem can be fixed by performing a BORcompute on the affected stiffener part. Either action will fix both the relationships and the position of the stiffener part.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

A ProfilePartGeneration_AE does not have a related PlateGeometry

Message

A ProfilePartGeneration_AE does not have a related PlateGeometry.

Severity

Crucial.

Detailed Description

The ProfilePart Generation requires a light part geometry as input. The PlateGeometry is actually the representation of light profile geometry: Missing StructOperation_OPRND relationship to PlateGeometry for ProfilePartGeneration_AE.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

A ProfilePartGeneration_AE does not have a related profile system

Message

A ProfilePartGeneration_AE does not have a related profile system.

Severity

Crucial.

Detailed Description

A profile part generation active entity (AE) does not have a related profile system: Missing the PartGeneration_OPER relationship to (ProfileSystem, BeamSystem, ProfileEdgeReinforcement) for ProfilePartGeneration_AE.

Possible Causes

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

A ProfilePartGeometry does not have a related ActiveEntity

Message

A ProfilePartGeometry does not have a related ActiveEntity.

Severity

Fatal.

Detailed Description

ProfilePartGeometry does not have a related ActiveEntity: Missing StructGeometryHasPorts relationship to IJStructGeometry (various) for StructPort_AE.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.

2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

A ProfileSystem does not have a related Plate

Message


A ProfileSystem does not have a related Plate.

Severity

Crucial.

Detailed Description

A profile system does not have a related plate: Missing the PlateAttributesForProfile relationship to Plate for ProfileSystemAE on root profiles.

 **NOTE** The test for this situation looks at ProfileSystemAE and verifies that the case is only reported on ProfileSystems and not Beams, because Beams do not support PlateAttributesForProfile.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A ProfileSystem exists with a connection on its end port that is split

Message

A ProfileSystem exists with a connection on its end port that is split.

Severity

Crucial.

Detailed Description

A profile system exists with a connection on its end port that is split.

Possible Cause

A profile bounded by a plate that is split at the same location as the end port of the profile.

Possible Impacts

None.

What You Should Do

1. Open the model.
2. In the Molded Forms task, remove the split end connections.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support. If possible, explain how to duplicate the situation.

A ProfileSystem exists with less than 3 or more than 6 shared attributes

Message

A ProfileSystem exists with less than 3 or more than 6 shared attributes.

Severity

Crucial.

Detailed Description

A profile system exists with less than three or more than six shared attributes.

Possible Cause

Unknown.

Possible Impacts

None.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the profile system, and assign the required attributes.

3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support. If possible, explain how to duplicate the situation.

A ProfileSystemAE does not have a related ProfileSystemRegion

Message

A ProfileSystemAE does not have a related ProfileSystemRegion.

Severity

Crucial.

Detailed Description

Case 1: Profile System

A profile system active entity (AE) does not have a related profile system region.

Case 2: Beam

A profile system active entity (AE) does not have a related BeamSystemAxis.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A RefCurveOnSurface does not have a related PlateSystem

Message

A RefCurveOnSurface does not have a related PlateSystem.

Severity

Crucial.

Detailed Description

A Reference curve is not associated to a parent Plate System: Missing SystemHierarchy relationship to PlateSystem for RefCurveOnSurface.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A ReferenceCollection for BracketByPlane is not related to a PlateSystem

Message

A ReferenceCollection for BracketByPlane is not related to a PlateSystem.

Severity

High.

Detailed Description

A ReferenceCollection, which typically provides links to the symbol information for a BracketByPlane PlateSystem, is not related to a PlateSystem. In this case, the ReferenceCollection appears to have relationships to other objects; therefore, you should not delete the ReferenceCollection at this time.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.

A ReferenceCollection for BracketByPlane is not related to a PlateSystem or any other object

Message

A ReferenceCollection for BracketByPlane is not related to a PlateSystem or any other object.

Severity

Normal.

Detailed Description

A ReferenceCollection, which typically provides links to the symbol information for a BracketByPlane PlateSystem, is not related to a PlateSystem. In this case, the ReferenceCollection is not related to any other objects other than the one that was supposed to be a PlateSystem. Because the point is not providing any expected information, you should delete the point.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

A SeamPoint AE does not have a related SeamPointGeometry

Message

A SeamPoint AE does not have a related SeamPointGeometry.

Severity

Fatal.

Detailed Description

A SeamPoint active entity does not have a related seam point geometry: Missing GeometryGeneration_RSLT1 relationship to SeamPointGeometry for SeamPointIntersect_AE, SeamPointOffset_AE.

Possible Cause

Unknown.

Possible Impacts

- The object will not display.
- A split will not work properly due to the Seam's missing geometry.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A SeamPoint does not have a related SeamPointGeometry

Message

A SeamPoint does not have a related SeamPointGeometry.

Severity

Fatal.

Detailed Description

A seam point does not have a related seam point geometry: Missing the StructToGeometry relationship to SeamPointGeometry for SeamPoint.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A SeamPointAE does not have a related profile system

Message

A SeamPointAE does not have a related profile system.

Severity

Fatal.

Detailed Description

A seam point active entity (AE) does not have a related profile system. Possible situations:

- Missing the SeamPoint_Int_Profile relationship to (ProfileSystem, EdgeReinforcementSystem or BeamSystem) for SeamPointIntersect_AE
- Missing the SeamPointOffsetProfile relationship to (ProfileSystem, EdgeReinforcementSystem or BeamSystem) for SeamPointOffset_AE

Possible Causes

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A SeamPointAE does not have a related surface

Message

A SeamPointAE does not have a related surface.

Severity

Fatal.

Detailed Description

A seam point active entity (AE) does not have a related surface. Possible situations:

- Missing the SeamPoint_Int_Surface relationship to various for SeamPointIntersect_AE
- Missing the SeamPointOffsetSource relationship to various for SeamPointOffset_AE

Possible Causes

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A SeamPointOffsetAE does not have a related LandingOffset

Message

A SeamPointOffsetAE does not have a related LandingOffset.

Severity

Crucial.

Detailed Description

A seam point offset active entity (AE) does not have a related landing offset: Missing the SeamPointOffsetValue relationship to LandingOffset for SeamPointOffset_AE.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object and modify it, if necessary. Or, select the object and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A split ActiveEntity does not have a related Seam

Message


A split ActiveEntity does not have a related Seam.

Severity

High.

Detailed Description

Straking split requested with no straking seam identified: Missing StructSplit_OPER1 relationship to Seam or SeamPoint for PlateStrakingSplit_AE, ProfileDesignSplit_AE or ProfileStrakingSplit_AE.

 **NOTE** Testing for this situation is not required for other types of splits because other types of objects will be used in the near future.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.

- Run the **Clean Database** custom command to delete the object.

A StiffenerPart exists that is related to more than one StructPortAE

Message

A StiffenerPart exists that is related to more than one StructPortAE.

Severity

Crucial.

Detailed Description

A stiffener part exists that is related to more than one StructPortAE (active entity).

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Run the **Clean Database** custom command to delete the object.

A StructPort exists without a related StructPortAE

Message

A StructPort exists without a related StructPortAE.

Severity

High.

Detailed Description

A StructPort exists without a related StructPortAE. You should delete the StructPort in the model.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the StructPort object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

A StructPort exists without a related system

Message

A StructPort exists without a related system.

Severity

Fatal.

Detailed Description

A StructPort exists without a related system.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the StructPort object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

A StructPortAE exists without having related geometry

Message

A StructPortAE exists without having related geometry.

Severity

Crucial.

Detailed Description

A structural port active entity (AE) exists without having related geometry: Missing the StructGeometryHasPorts relationship to IJStructGeometry (various) for StructPort_AE.

Possible Cause

Unknown.

Possible Impacts

Cases found were for CollarParts, PlateParts and StiffenerParts. In the cases examined, another StructPort_AE was available and properly related to Geometry, Ports, and Parts. Therefore, it is recommended to delete or remove the StructPort_AE that is in error.

It is possible that the bad StructPort_AE is being returned to code that is attempting to use it, because related items were also found on the To Do List, for example, unnamed collar parts and MfgParts.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Run the **Clean Database** custom command to delete the object.

A Structural Connection exists that is not in the SystemHierarchy

Message

A Structural Connection exists that is not in the SystemHierarchy.

Severity

Normal.

Detailed Description

A Structural Connection exists that is not in the SystemHierarchy: Missing SystemHierarchy relationship for Struct Connection, AssemblyConnection, StructPhysicalConnection.

Possible Cause

The objects associated with this message are all connections that were left behind when the connection's parent plate system was deleted. The database integrity scripts have been updated to delete these connections when they are found.

Possible Impacts

None.

What You Should Do

1. Ask your database administrator to back up the model.
2. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

A system does not have a related child part

Message

A system does not have a related child part.

Severity

Crucial.

Detailed Description

A system does not have a related child part.

For a plate system:

- Missing the SystemHierarchy relationship to a PlatePart for leaf PlateSystem and the PlateSystem is not related to CPlateDesignSplit_AE Active Entity.

NOTES

- In some instances, the plate part existed, but was disassociated from the Plate System in the SystemHierarchy. See the previous bullet point: **For a plate system**.
- For plates, a check is made on whether the part is in the graphics map. If not, it is posted as *PlateSystem has no PlatePart via GraphicsMap* (on page 327). This check has been commented out because it adds significant time (minutes and possibly hours) when running the **Check Database Integrity** command. If this check is required, it can be uncommented out in the ShipStructureRelationsCheck.sql file.

For a profile system:

- Missing SystemHierarchy relationship to StiffenerPart for leaf ProfileSystem (that is, the ProfileSystem is not related to CProfileDesignSplit_AE).

For an edge reinforcement system:

- Missing SystemHierarchy relationship to EdgeReinforcementProfilePart for leaf EdgeReinforcementSystem (that is, EdgeReinforcementSystem not related to CProfileDesignSplit_AE).

For a beam system:

- Missing the SystemHierarchy relationship to BeamPart for leaf BeamSystem (that is, the BeamSystem not related to CProfileDesignSplit_AE).

For an edge reinforcement profile part:

- Missing the SystemHierarchy relationship to EdgeReinforcementSystem for generated EdgeReinforcementProfilePart.

Possible Causes

Unknown. In some cases (for Plate Systems), the Plate Part existed and needed to be reassigned as a child of the System.

Possible Impacts

Unknown.

What You Should Do

For the plate system case:

1. Find the part in the DBIntegrity report that does not have the proper parent system. You can open the model, and in the Molded Forms task, attempt to find the part. It may be up one level in the hierarchy.
2. If the part is found, go to the Systems and Specifications task, and reassign the part to the appropriate parent system.
3. Re-run the **Check Database Integrity** command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

For other cases:

1. Open the model.
2. In the Molded Forms task, select the object and modify it, if necessary. Or, select the object and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

Alternate Point has no relation to the ProfileByTable AE anymore

Message

Alternate Point has no relation to the ProfileByTable AE anymore.

Severity

Normal.

Detailed Description

There is an orphaned point in the database.

Possible Cause

The code at one time did not properly delete unused alternative points for the ProfileByTable command.

Possible Impacts

None.

What You Should Do

1. Ask your database administrator to back up the model.
2. Run the **Clean Database** custom command to delete the object.

An ActiveEntity does not have a related plate operand

Message

An ActiveEntity does not have a related plate operand.

Severity

Fatal.

Detailed Description

The PlateDesignSplit active entity (AE) does not have a related plate as input (operand).

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object or objects in relation to the active entity.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

An ActiveEntity exists with no related operand

Message

An ActiveEntity exists with no related operand.

Severity

High.

Detailed Description

Missing the StructOperation_OPRND relationship to PlateGeometry for GeneratePlatePart_AE, PlateCutout_AE.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

An ActiveEntity exists with no related result

Message

An ActiveEntity exists with no related result.

Severity

Fatal.

Detailed Description

An active entity exists without a related result: Missing the StructOperation_RSLT1 relationship to PlateGeometry PlatePlanningSplit_AE, ProfilePlanningSplit_AE, PlateDesignSplit_AE, PlateCutout_AE.

Possible Cause

An example of this problem is when a ProfilePlanningSplit_AE does not have a result representing the light EdgeReinforcementProfilePart when the ERSsystem is on a closed contour.

Possible Impacts

You cannot properly manipulate the object itself or other objects related to it.

What You Should Do

The associated first class object should be on the To Do List. It is recommended not to delete these objects but to perform an update or re-computation.

1. Open the model.
2. In the Molded Forms task, select the object on the To Do List or in the **Workspace Explorer**, and modify the object, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support. If possible, explain how to duplicate the situation.

An ActiveEntity exists with no related result and no operand

Message

An ActiveEntity exists with no related result and no operand.

Severity

Fatal.

Detailed Description

An active entity exists without a related result: Missing the StructOperation_RSLT1 relationship to PlateGeometry PlatePlanningSplit_AE, ProfilePlanningSplit_AE, PlateDesignSplit_AE, PlateCutout_AE. The active entity is also missing its related (input) operand.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

An EdgeReinforcement does not have a related LandCrvER_AE

Message

An EdgeReinforcement does not have a related LandCrvER_AE.

Severity

Crucial.

Detailed Description

An EdgeReinforcement does not have a related LandCrvER_AE: Missing ERAttributes relationship to LandCrvER_AE for unsplit EdgeReinforcementSystem and standalone EdgeReinforcementProfilePart.

Possible Cause

Unknown.

Possible Impacts

None.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

An IJShellMoldedConventions Attribute Bag found on non-hull plate

Message

An IJShellMoldedConventions Attribute Bag found on non-hull plate.

Severity

Crucial.

Detailed Description

Shared attributes, which are based on the IJShellMoldedConventions interface, have been created for or shared with objects that are not shell plate types.

Possible Cause

The underlying cause of this error is that shared attributes were created for the IJShellMoldedConventions interface on non-shell plates. The software placed the interface GUID in the CoreBaseClass, CoreRelationOrigin, and StructSharedBag tables. To correct the problem, the interface GUID must be deleted from those tables.

This problem was identified by TR-125621: DB Integrity shows plate systems w/o molded conventions.

Possible Impacts

None.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) with the above error message.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

An object does not have a related LandingCurve

Message

An object does not have a related LandingCurve.

Severity

Fatal (for Seams).

Crucial (for Profiles).

Detailed Description

An object does not have a related landing curve:

- Missing StructToGeometry relationship to LandCurve for Seam, RefCurveOnSurface
- Missing StructOperation_RSLT1 relationship to various (ProfileLandCrv and BeamLandingCurve) for ProfileDesignSplit_AE

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

An object does not have a related material

Message

An object does not have a related material.

Severity

Crucial.

Detailed Description

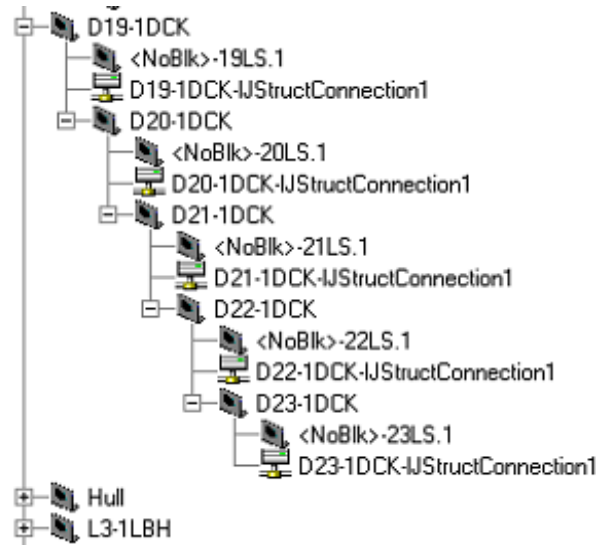
An object does not have a related material: Missing SystemHasMaterial relationship to SiteProxy (IJDMaterial) for Root plate systems, root beam system, standalone beam part, CollarPart, Standalone EdgeReinforcementProfilePart, StandAloneStiffenerPart.

Possible Cause

This error occurs under two conditions.

- Condition 1 (Refer to What You Should Do, Action 1): The first condition occurs when plate systems are assigned as children to other plate systems, and the plate system hierarchy is more than three layers deep. The following graphic shows a plate system hierarchy with too many levels. Plate systems inherit properties like Molded Specification, Material, and Thickness from their parents. The data integrity checks only go up two levels looking for a

root plate system to obtain the Thickness property. Thus, if the plate system is deeper than two levels below the root, no thickness property is found by the integrity check.



- Condition 2 (Refer to What You Should Do, Action 2): The second condition occurs is when a plate system is created as the child of another plate system and later moved to a different location in the hierarchy where it becomes a root plate system. These plate systems will not have a Molded Specification or any Material properties assigned.

Possible Impacts

- Thickening and display of light parts will fail.
- Referencing to the far side will not be accurate.
- Placing equipment may be done at the wrong location.
- The weight and center of gravity may not be calculated and will be invalid.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.

Action 1 (Refer to Detailed Description, Condition 1): If the plate system is a child of another plate system, move the plate system up in the hierarchy. If the plate system becomes a root system when it is moved up in the hierarchy, modify its properties to assign a Molded Specification and Material properties. The Specification that was previously inherited from the parent is not automatically assigned when the plate system is changed to a root system. Note that this action is not absolutely necessary because the plate system with the message will detail and manufacture correctly in its current state.

Action 2 (Refer to Detailed Description, Condition 2): If the plate system is a root plate system, modify its properties to assign a Molded Specification and Material properties.

3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

An object does not have a related PlateGeometry

Message

An object does not have a related PlateGeometry.

Severity

Fatal.

Detailed Description

An object does not have a related (plate) geometry: Missing the StructToGeometry relationship to plate geometry for the plate system.

Possible Cause

Unknown. The object should be posted on the To Do List.

Possible Impacts

If the object is not available in the **Workspace Explorer** hierarchy, it cannot be manipulated.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object from the To Do List or the **Workspace Explorer**, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support. If possible, explain how to duplicate the situation.

An object does not have a related PlateGeometry nor a parent system

Message

An object does not have a related PlateGeometry nor a parent system.

Severity

Fatal.

Detailed Description

An object does not have a related (plate) geometry: Missing the StructToGeometry relationship to plate geometry for the plate system and light part (Plate Part, StiffenerPart, Beam Part, and EdgeReinforcementProfilePart). The object is also missing its parent system.

The object should be posted on the To Do List.

Possible Cause

Unknown.

Possible Impacts

If the object is not available in the **Workspace Explorer**, it cannot be manipulated.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

An object does not have a related profile symbol

Message

An object does not have a related profile symbol.

Severity

High.

Detailed Description

An object does not have a related profile symbol: Missing ProfileSymbol relationship to Symbol for ProfileSystemAE for root profilesystems, standalone BeamPart, standalone EdgeReinforcementProfilePart, Standalone StiffenerPart.

Possible Causes

- Cross sections are not loaded into the catalog.
- Symbols are not compiled or registered on the computer.
- Symbols were not loaded in catalog.
- Symbol was deleted.

Possible Impacts

- No display.
- The weight and center of gravity may not be calculated and will be invalid.

What You Should Do

1. Verify that cross sections have been loaded into the catalog. If not, load cross sections into the catalog.

2. Verify that the user-defined symbols have been registered.
3. Verify that the catalog symbols have been loaded. If not, load the symbols into the catalog. Verify that the problem still exists.
4. In the Molded Forms task, select the Profile (Stiffener) in the **Workspace Explorer**. Change the cross section, and click **Finish**.

An object does not have a related StructPort_AE

Message

An object does not have a related StructPort_AE.

Severity

High.

Detailed Description

A Plate Part's geometry or a Profile Part's last geometry does not have a relationship to a StructPort active entity (AE), which allows it to have connections or be selected.

Possible Cause

Unknown.

Possible Impacts

You cannot make connections or select the object for referencing.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

An object exists that is not in the SystemHierarchy

Message

An object exists that is not in the SystemHierarchy.

Severity

Normal.

Detailed Description

An object exists that is not in the system hierarchy: Missing SystemHierarchy relationship for Plate System, Profile System, Struct Connection, Seam, SeamPoint, Beam System, BeamPart, SmartPlate, CollarPart, EdgeReinforcementProfilePart, StandAloneStiffenerPart, StructFeature, SketchFeature, PlatePart, StiffenerPart.

Possible Cause

Unknown.

Possible Impacts

None.

What You Should Do

1. Open the model.
2. Verify that the object is in the **Workspace Explorer**.
3. In the Systems and Specifications task, select the object, and assign the object to an appropriate system.

An opening occurrence does not have a related PlateCutoutAE

Message

An opening occurrence does not have a related PlateCutoutAE.

Severity

Crucial.

Detailed Description

An opening occurrence does not have a related plate cutout active entity (AE): Missing the StructOperation_RSLTocc relationship to PlateCutout_AE for StructOpeningOccurrence.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.

3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

An opening occurrence has relationships that point to different struct geometry

Message

An opening occurrence has relationships that point to different struct geometry.

Severity

Crucial.

Detailed Description

An opening occurrence has relationships that point to different struct geometry.

In other words, an opening occurrence has paths that point to different struct geometry. For example, the plate geometry found at the end of OpeningOcc operation should match the plate geometry found at the end of StructPortResult.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support. If possible, explain how to duplicate the situation.

An unnecessary relationship exists in the database

Message

An unnecessary relationship exists in the database.

Severity

Normal.

Detailed Description

A temporary ProfileCopyOrder relationship was left behind in the database. This relationship is only required during an actual copy of a Profile. Therefore, it should be removed from the database.

Possible Cause

This situation usually happens when a profile copy has failed.

Possible Impacts

None.

What You Should Do

Delete the record by running the **Clean Database** custom command.

Beam axis rule type not defined

Message

Beam axis rule type not defined.

Severity

High.

Detailed Description

There is a beam system that does not have the beam axis rule type.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support. If possible, explain how to duplicate the situation.

Beam does not have an orientation

Message

Beam does not have an orientation.

Severity

High.

Detailed Description

A beam system does not have an orientation defined.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support. If possible, explain how to duplicate the situation.

Beam Orientation does not have Flip U defined

Message

Beam Orientation does not have Flip U defined.

Severity

High.

Detailed Description

A beam orientation does not have the Flip U defined.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support. If possible, explain how to duplicate the situation.

Beam Orientation does not have Flip V defined

Message

Beam Orientation does not have Flip V defined.

Severity

High.

Detailed Description

A beam orientation does not have the Flip V defined.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support. If possible, explain how to duplicate the situation.

BracketByPlane PlateSystem is not an input to the symbol's ReferenceCollection via StructSymbolInput2

Message

BracketByPlane PlateSystem is not an input to the symbol's ReferenceCollection via StructSymbolInput2.

Severity

Crucial.

Detailed Description

A BracketByPlane PlateSystem must be an input to the symbol's ReferenceCollection. The symbol needs information from the PlateSystem. This information is passed to the symbol via the StructSymbolInput2 relationship to the symbol's ReferenceCollection.

Possible Cause

Unknown.

Possible Impacts

The geometry and display of the PlateSystem will not be correct. This problem can affect other related objects.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the BracketByPlane PlateSystem, select a valid symbol, and make any other necessary modification.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

BracketByPlane PlateSystem's ReferenceCollection has no symbol inputs

Message

BracketByPlane PlateSystem's ReferenceCollection has no symbol inputs.

Severity

Crucial.

Detailed Description

A BracketByPlane PlateSystem's ReferenceCollection has no symbol inputs, which is the collection's primary use.

Possible Cause

Unknown.

Possible Impacts

The geometry and display of the PlateSystem will not be correct. This problem can affect other related objects.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the BracketByPlane PlateSystem, select a valid symbol, and make any other necessary modification.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

BracketByPlane PlateSystem's ReferenceCollection is not related to a ReferenceCollection for the symbol

Message

BracketByPlane PlateSystem's ReferenceCollection is not related to a ReferenceCollection for the symbol.

Severity

Crucial.

Detailed Description

A BracketByPlane PlateSystem's ReferenceCollection is not related to a ReferenceCollection for the symbol. The ReferenceCollection's primary purpose is to provide symbol information about a PlateSystem.

Possible Cause

Unknown.

Possible Impacts

The geometry and display of the PlateSystem will not be correct. This problem can affect other related objects.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the BracketByPlane PlateSystem, select a valid symbol, and make any other necessary modification.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

BracketByPlane PlateSystem's symbol is not a BracketByPlane symbol

Message

BracketByPlane PlateSystem's symbol is not a BracketByPlane symbol.

Severity

Crucial.

Detailed Description

A BracketByPlane PlateSystem's symbol must be of type BracketByPlane. In this case, the symbol is not defined as a BracketByPlane symbol.

Possible Cause

Unknown.

Possible Impacts

The geometry and display of the PlateSystem will not be correct. This problem can affect other related objects.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the BracketByPlane PlateSystem, select a valid symbol, and make any other necessary modification.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

BracketByPlane PlateSystem's PlaneByOffset PlateGeometry is not an input to the symbol's ReferenceCollection

Message

BracketByPlane PlateSystem's PlaneByOffset PlateGeometry is not an input to the symbol's ReferenceCollection.

Severity

Crucial.

Detailed Description

A BracketByPlane PlateSystem's PlaneByOffset PlateGeometry must be an input to the symbol's ReferenceCollection. The symbol needs information from this geometry.

Possible Cause

Unknown.

Possible Impacts

The geometry and display of the PlateSystem will not be correct. This problem can affect other related objects.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the BracketByPlane PlateSystem, select a valid symbol, and make any other necessary modification.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

Cannot get Cross Section Symbols for Profiles and Beams

Message

Cannot get Cross Section Symbols for Profiles and Beams.

Severity

Crucial.

Detailed Description

Missing ProfileSystemSection relationship to SiteProxy for ProfileSystemAE for root profilesystems, standalone BeamPart, standalone EdgeReinforcementProfilePart, Standalone StiffenerPart.

Uses the XprofileSystemSection view.

Possible Causes

- Cross sections were not loaded into the catalog.
- Symbols are not compiled or registered on the machine.
- Symbols were not loaded in the catalog.
- Symbol was deleted.

Possible Impacts

- The object will not display.
- The weight and center of gravity will be invalid.

What You Should Do

- Verify that cross sections have been loaded into the catalog. If not, load cross sections into the catalog.
- Verify that the user-defined symbols have been registered.
- Verify that the catalog symbols have been loaded. If not, load symbols into the catalog. Verify the problem still exists.
- Select the Profile (Stiffener), and change the cross section used.

Design- or Planning-split operation without a seam does not have one result

Message

Design- or Planning-split operation without a seam does not have one result.

Severity

Fatal.

Detailed Description

A design-split operation or planning-split operation does not have one seam, indicating that there is no split to be performed. In such cases, the split operation (AE) should have one and only one geometry as a result.

Possible Cause

Unknown.

Possible Impacts

The object cannot be split.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

Duplicate PlateBound_OPER3 relationships exist between the same two objects

Message

Duplicate PlateBound_OPER3 relationships exist between the same two objects.

Severity

High.

Detailed Description

A duplicate PlateBound_OPER3 relationship exists between a PlateBound Active Entity and an input object to that active entity. The PlateBound_OPER3 relationship is used exclusively for leaf profile systems. This relationship should contain all of the leaf profile systems associated with a root profile system on the PlateBound_OPER2 relationship.

Possible Cause

Unknown. This problem was found on active entities for brackets.

Possible Impacts

Unknown. But there is a potential for problems.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object (the object type may be unknown) with the above error message.
4. Click **Clean Now**. All objects that have this problem will be corrected. (You do not have to select all cases.)
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.

6. If the object is still posted, contact Smart 3D Support.

Duplicate ShpStrDesignHierarchy relationships exist between the same two objects

Message

Duplicate ShpStrDesignHierarchy relationships exist between the same two objects.

Severity

Crucial.

Detailed Description

A duplicate ShpStrDesignHierarchy relationship exists between a parent and child. This relationship is very important and is used in the **System** view of the **Workspace Explorer**. The relationship can be between a parent leaf plate system and a child plate part.

Possible Cause

Unknown. This problem was found on active entities for brackets.

Possible Impacts

Unknown. It is possible that the software will behave in a strange way in this situation. So this problem must be corrected.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object (the object type may be unknown) with the above error message.
4. Click **Clean Now**. All objects that have this problem will be corrected. (You do not have to select all cases.)
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

EdgeReinforcement is missing Attribute

Message

EdgeReinforcement is missing Attribute.

Severity

Crucial.

Detailed Description

The Edge Reinforcement properties such as offset and position were not set properly on the Edge Reinforcement root system.

Possible Cause

Unknown.

Possible Impacts

Plates may not be properly updated.

What You Should Do

1. Select the root Edge Reinforcement system, and edit the edge reinforcement properties on the property page.
2. Re-run the **Check Database Integrity** command to verify that this error has been fixed.

Extra/Orphaned group monitors exist

Message

Extra/Orphaned group monitors exist

Severity

Crucial

Detailed Description

- **Extra group monitors exist** — For a single group criterion, more than one group monitor was created for it.
- **Orphaned group monitors exist** — A group monitor was created, but it is not related to any part.
 - If duplicated group monitors exist, one of them will be posted to be repaired.
 - If orphaned group monitors exist and no duplicated group monitor exists, one of orphaned group monitors will be posted to minimize the entries in the DB.

Possible Cause

Unknown


Possible Impacts

- Extra group monitors can cause parts to have the same name if part position index is used in naming.
- Orphaned group monitors waste database resources.

What You Should Do

Delete these objects by running the **Clean Database** custom command.

During this process, part names might be updated if they are related to extra group monitors.

 **NOTE** To perform this step, you must have write permission.

Hull Plate System does not have Shell Molded Conventions defined

Message

Hull Plate System does not have Shell Molded Conventions defined.

Severity

Crucial.

Detailed Description

The shell molded conventions are not specified for a plate system of type Hull.

Possible Cause

Unknown.

Possible Impacts

Plates and stiffeners might fail during processing. This situation can affect stiffener orientation and properties controlled by the default values for molded conventions.

What You Should Do

1. Select the root system, and edit the shell molded conventions on the **Properties** dialog box.
2. Re-run the **Check Database Integrity** custom command to verify that this error has been fixed.

Invalid relation between ReferencesCollection and sketching plane

Message

Invalid relation between ReferencesCollection and sketching plane.

Severity

Crucial.

Detailed Description

There is an invalid relationship between ReferencesCollection and the sketching plane.

Possible Cause

There is a bug in the 3D API implementation that causes sketch objects created with the 3D API to have an incorrect relation between the sketching plane and the ReferencesCollection.

The StructSymbolInput relation was used instead of StructSketchInput relation, which could cause the business objects using these objects to behave incorrectly in certain operations.

The created relation was incorrect for the following sketch objects:

- Curve to revolve, Axis of rotation of Revolved Plate
- Mother curve of LEP
- Mother curve and Extrusion curve of NLEP
- First and Second curve of Ruled Plate
- Boundaries of PlateSystem, BracketPlateSystem StandAlonePlatePart, and the collar CustomPlatePart
- FlangePart of BracketPlateSystem
- Projected curve of Seam and Stiffener

Possible Impacts

The data model for sketch objects created with the 3D API will not be in sync with the objects created interactively using S3DHost.

You cannot use Model Data Reuse, and you cannot use the **Delete optional** option to copy and paste the business objects that use sketch objects created with the 3D API.

What You Should Do

Repair the object by running the **Clean Database** custom command.

LinearExtrusion AE does not have a retrievable MotherCurve

Message

LinearExtrusion AE does not have a retrievable MotherCurve.

Severity

Fatal.

Detailed Description

The naming of symbol information used to create the Linear Extruded Plate must be consistent. For example, the RelationshipName of the First ProxyOwner needs to be the same as the RelationshipName for the StructContour in the FromOutputColltoOutputs.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the objects or objects related to it.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object from the To Do List or **Workspace Explorer**, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support. If possible, explain how to duplicate the situation.

No Geometry filename is stored with an object that has imported geometry

Message

No Geometry filename is stored with an object that has imported geometry.

Severity

Crucial.

Detailed Description

There is an imported plate system with an invalid geometry file name.

Possible Cause

Unknown.

Possible Impacts

None.

What You Should Do

1. Open the model.
2. In the Molded Forms task, verify that the geometry file name is in the correct location.
3. Select the file, and assign a valid file name.
4. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
5. If the object is still posted, contact Smart 3D Support. If possible, explain how to duplicate the situation.

Object has multiple structural naming Hierarchy Parent relationships

Message

Object has multiple structural naming Hierarchy Parent relationships.

Severity

Normal.

Detailed Description

The test for this database integrity problem checks for multiple StructHierarchyNamingAEs related to a Structural object (for example, a plate) via the StructNamingHierarchyParent relationship.

In the 04.01.08 build, Root PlateSystems have a StructHierarchyNamingAE for each SubSystems PlatePart. Therefore, testing for this problem is not currently active.

Possible Cause

Unknown.

Possible Impacts

No visible impact.

What You Should Do

Report this situation to Smart 3D Support.

Object has multiple structural naming reference controllers (active entities)

Message

Object has multiple structural naming reference controllers (active entities).

Severity

Normal.

Detailed Description

Multiple StructNamingReference AEs are related to an Object.

Possible Cause

When two concurrent users add a deck at the same grid plane, both users will see that the grid has no naming AE associated to it. When this situation happens, there are two PlateSystemNamingAEs related to the grid via the StructNamingReference relationship.

Possible Impacts

No visible impact.

What You Should Do

Report this situation to Smart 3D Support.

Object is related to a port with a bag of bytes--should be related to connectable port

Message

Object is related to a port with a bag of bytes--should be related to connectable port.

Severity

Fatal.

Detailed Description

Objects should not be related to ports with bags of bytes (BOB). The bag of bytes can change, and therefore binding to a port whose moniker has a bag of bytes can fail. The object should be related to a connectable port.

Possible Cause

The client allows users to select ports with bags of bytes in many instances. The client has been fixed to prevent this situation from happening, but it is possible that these relationships could have existed in the past or that there are certain cases that were overlooked where you can still select one of these BOB ports.

Possible Impacts

We have changed the relationship names of the StructPortResult relationships between the object and the port. If there are some cases where the BOB is actually needed to uniquely identify a port (we could not find any of these cases), then there may be an impact.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the objects with the "Object is related to a port with a bag of bytes-- should be related to connectable port" error description.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

Orphaned StructPlane3d objects

Message

Orphaned StructPlane3d objects.

Severity

High.

Detailed Description

Some StructPlane3d objects and their corresponding PlaneByOffset_AEs and PlaneValues are not related to any other first class objects and are not required.

Possible Cause

Prior to V6, StructPlane3d objects and their corresponding PlaneByOffset_AE and PlaneValue objects were created but not properly deleted when the plates using them were deleted.

Possible Impacts

None expected.

What You Should Do

1. Ask your database administrator to back up the model.
2. Run the **Clean Database** custom command to delete the objects.

PlaneBy2PtsProjDir_AE does not have a related Frame Axis

Message

PlaneBy2PtsProjDir_AE does not have a related Frame Axis.

Severity

Crucial.

Detailed Description

The active entity for a plane created by two points and projection direction does not have a base plane (frame axis) for defining the projection direction. The relation PlaneBy2PtsProjDirBasePlane to FrameAxis for PlaneBy2PtsProjDir_AE is missing.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the profile or seam by table that uses the intersection plane, and modify, remove, or re-create the intersection plane, if necessary.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

PlaneBy2PtsProjDir_AE does not have a related Plane

Message

PlaneBy2PtsProjDir_AE does not have a related Plane.

Severity

Crucial.

Detailed Description

The active entity for a plane created by two points and projection direction does not have a base plane (frame axis) for defining the projection direction. The relation PlaneBy2PtsProjDirBasePlane to FrameAxis for PlaneBy2PtsProjDir_AE is missing.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the profile or seam by table that uses the intersection plane, and modify, remove, or re-create the intersection plane, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

PlaneBy2PtsProjDir_AE does not have related Normal Vector

Message

PlaneBy2PtsProjDir_AE does not have related Normal Vector.

Severity

Crucial.

Detailed Description

The active entity for a plane created by two points and projection direction does not have an output normal vector for creating the plane. The relation PlaneBy2PtsProjDirNormal to Line for PlaneBy2PtsProjDir_AE is missing.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the profile or seam by table that uses the intersection plane, and modify, remove, or re-create the intersection plane, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

PlaneBy2PtsProjDir_AE does not have related Points On Surface

Message

PlaneBy2PtsProjDir_AE does not have related Points On Surface.

Severity

Crucial.

Detailed Description

The active entity for a plane created by two points and projection direction does not have an output normal vector for creating plane. The relation PlaneBy2PtsProjDirNormal to Line for PlaneBy2PtsProjDir_AE is missing.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the profile or seam by table that uses the intersection plane, and modify, remove, or re-create the intersection plane, if necessary.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

PlaneBy2PtsProjDir_AE output Plane is not related to a landing curve

Message

PlaneBy2PtsProjDir_AE output Plane is not related to a landing curve.

Severity

Crucial.

Detailed Description

The plane that is an output of the active entity for a plane created by two points and projection direction does not have an associated landing curve. The relation LandCrvIntersectionPlane to LandCrvTable_AE or the relation SeamLandCrvIntPlane to SeamTable_AE is missing.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

The plane is an orphan and is marked for deletion.

Plate has no dimensions

Message

Plate has no dimensions.

Severity

Crucial.

Detailed Description

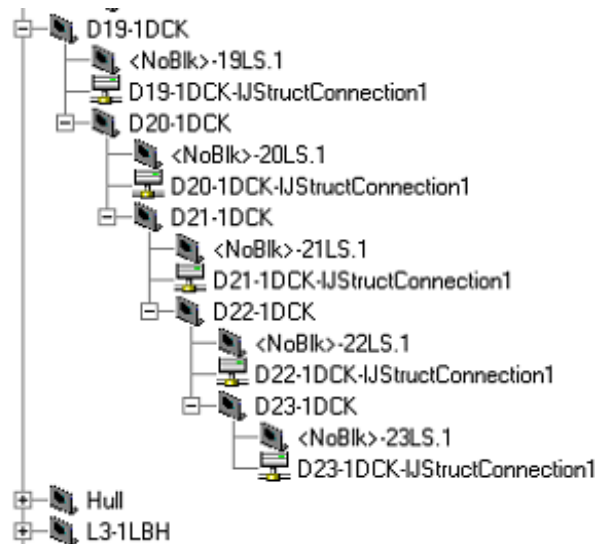
Missing the PlateHasDimensions relationship to SiteProxy (IJDPPlateDimensions) for root plate systems, StandalonePlatePart, SmartPlate, and CollarPart. Some Root PlateSystems are children of other Root PlateSystems. (The code now goes up two levels.)

In this message, "dimensions" refers to thickness.

Possible Cause

This error occurs under two conditions.

- Condition 1 (Refer to What You Should Do, Action 1): The first condition occurs when plate systems are assigned as children to other plate systems, and the plate system hierarchy is more than three layers deep. The following graphic shows a plate system hierarchy with too many levels. Plate systems inherit properties like Molded Specification, Material, and Thickness from their parents. The data integrity checks only go up two levels looking for a root plate system to obtain the Thickness property. Thus, if the plate system is deeper than two levels below the root, no thickness property is found by the integrity check.



- Condition 2 (Refer to Refer to What You Should Do, Action 2): The second condition occurs is when a plate system is created as the child of another plate system and later moved to a different location in the hierarchy where it becomes a root plate system. These plate systems will not have a Molded Specification or any Material properties assigned.

Possible Impacts

- Thickening and display of light parts will fail.
- Referencing to the far side will not be accurate.
- Placing equipment may be done at the wrong location.
- The weight and center of gravity may not be calculated and will be invalid.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.

Action 1 (Refer to Detailed Description, Condition 1): If the plate system is a child of another plate system, move the plate system up in the hierarchy. If the plate system becomes a root system when it is moved up in the hierarchy, modify its properties to assign a Molded Specification and Material properties. The Specification that was previously inherited from the parent is not automatically assigned when the plate system is changed to a root system. Note that this action is not absolutely necessary because the plate system with the message will detail and manufacture correctly in its current state.

Action 2 (Refer to Detailed Description, Condition 2): If the plate system is a root plate system, modify its properties to assign a Molded Specification and Material properties.

3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

Plate LinearExtrusion AE is missing its Mother Curve

Message

In Versions 6 and 6.1: Object does not have all necessary Information.

In Version 7: Plate LinearExtrusion AE is missing its Mother Curve.

Severity

Crucial.

Detailed Description

Plate LinearExtrusion AE (operation) is missing its Mother Curve.

Possible Cause

Unknown.

Possible Impacts

The Plate will not process properly.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

Plate Part has no dimensions

Message

Plate Part has no dimensions.

Severity

Crucial.

Detailed Description

Missing the PlateHasDimensions relationship to SiteProxy (IJDPlateDimensions) for StandalonePlatePart, SmartPlate, CollarPart.

Possible Cause

Unknown.

Possible Impacts

- Thickening will fail.
- Referencing to the far side will not be accurate.
- The weight and center of gravity (CG) may not be calculated and will be invalid.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the plate system, and assign a dimension.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

Plate System cannot be used as a seam boundary

Message

Plate System cannot be used as a seam boundary.

Severity

Crucial.

Detailed Description

In V6, only Seams can be used as boundaries. So, this test finds seams that still have plates as a boundary.

Possible Cause

Prior to V6, the plate being split was added as a boundary to the seam in order to provide solutions to an ambiguous case. Any object posted because of this situation was probably created in a version of the software earlier than V6 and did not get properly converted.

Possible Impacts

The Seam will not be properly represented and may have difficulties being revised.

What You Should Do

1. Ask your database administrator to back up the model.
2. Attempt to edit the Seam and bound it by another seam. In the case of the seam being interrupted by an opening and only requiring the seam to exist on one side of the opening, either redefine the seam by projection or by table, or create another seam that falls within the opening that can be used as a boundary.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

Plate System does not have Molded Conventions defined

Message

Plate System does not have Molded Conventions defined.

Severity

Crucial.

Detailed Description

The Molded Conventions are not set on a Root Plate System.

Possible Cause

Unknown.

Possible Impacts

Plates and Stiffeners may fail during processing. This situation could affect Stiffener orientation and properties controlled by the default values for molded conventions.

What You Should Do

1. Select the Root System, and edit the Molded Conventions on the property page.
2. Re-run the **Check Database Integrity** custom command to verify that this error has been fixed.

PlatePart has no Geometry associated to it

Message

PlatePart has no Geometry associated to it.

Severity

Fatal.

Detailed Description

There is a plate part without geometry associated to it.

An example of this problem is PlateParts that are only associated to ReportData. The PlateParts do not have a parent system. In this case, deletion of the part is recommended.

Possible Cause

Unknown.

Possible Impacts

- The plate part cannot be displayed graphically.
- The weight and center of gravity will be invalid.
- You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

PlatePartGeometry is missing active entity and is unable to update

Message

PlatePartGeometry is missing active entity and is unable to update.

Severity

Fatal.

Detailed Description

A Plate Part is reported as having its geometry missing its active entity. This situation causes the geometry to not be updated as needed.

Possible Cause

Unknown.

Possible Impacts

No updates can be performed on the geometry.

What You Should Do

1. Ask your database administrator to back up the model.
2. Delete the object using one of the following methods:
 - Select the part in the **Workspace Explorer**, and then delete it.
 - Run the **Clean Database** custom command to delete the object.

PlatePartGeometry is missing CreatePlatePart_AE and is unable to Update

Message

PlatePartGeometry is missing CreatePlatePart_AE and is unable to Update.

Severity

Fatal.

Detailed Description

There is a plate part whose geometry has no active entity and therefore cannot be updated: Missing the StructOperation_RSLT1 relationship to (GeneratePlatePart_AE, PlateStrakingSplit_AE, SDCutAE, PlateFinalTrim_AE, or ChamferCut_AE) for detailed PlatePartGeometry.

Possible Cause

Unknown.

Possible Impacts

- You cannot manipulate the object itself or other objects related to it.
- The geometry will not be updated.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Run the **Clean Database** custom command to delete the object.

PlateSystem does not have its IJPlate attributes set

Message

PlateSystem does not have its IJPlate attributes set.

Severity

Crucial.

Detailed Description

The Plate properties were not set properly. These properties include the Plate Type (Hull, Deck, BulkHead), the Tightness (NonTight, WaterTight), and the naming rule.

Possible Cause

Unknown.

Possible Impacts

Plates may not be properly updated.

What You Should Do

1. Select the Root Plate System, and edit the plate properties on the property page.
2. Re-run the **Check Database Integrity** custom command to verify that this error has been fixed.

PlateSystem has no PlatePart via GraphicsMap

Message

PlateSystem has no PlatePart via GraphicsMap.

Severity

Crucial.

Detailed Description

A Plate System is missing its PlatePart via the System Hierarchy and via the Graphics mapping.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

Profile by Projection is missing its Sketched curve

Message

Profile by Projection is missing its Sketched curve.

Severity

High.

Detailed Description

A Profile System created by projection is missing its two-dimensional sketched curve or the output collection for the contour.

Case 1:

In the few cases found with the two-dimensional sketched curve missing, it was also posted on the **To Do List** and posted for "A profile does not have a related child connection" and "A Profile

system exists with no related planning split or light part" in the DBIntegrity table. The second posting recommends deletion of the object.

Case 2:

In most cases found, the problem was with the sketched curve missing its output collection. The profile systems appeared normal in the **Workspace Explorer** and in the graphic view. One can select the profile and modify it without any noticeable problems. Making any change to the projected sketched curve will correct the situation, and the next time the Check Database Integrity is run, it will be resolved.

Developer Info: The symbol does have a To Do record associated with it, which is not visible to the current user. Also, ASSERTs are noted in Debug mode when attempting to access and edit the profile.

Possible Cause

Unknown.

Possible Impacts

In case 1, the profile will not be displayable, be able to be detailed, or be manufactured.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify its projected sketched curve.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

Profile leaf system is not on PartGeneration_OPER relationship

Message

Profile leaf system is not on PartGeneration_OPER relationship.

Severity

Crucial.

Detailed Description

Profile leaf system is not on the PartGeneration_OPER relationship with ProfilePartGeneration_AE.

Possible Causes

Models migrated from earlier versions to v5 or later tend to have this problem. The root system is not replaced with the leaf system on this relationship when the model is migrated.

Possible Impacts

The profile part may have incorrect geometry.

What You Should Do

Run the **Clean Database** custom command (ProgID:SP3DCleanDatabaseCmd.CCCheckObj) on these objects.

ProfileKnuckle does not have a related ProfileLanding Curve

Message

ProfileKnuckle does not have a related ProfileLanding Curve.

Severity

Crucial.

Detailed Description

A ProfileKnuckle requires an association to a Profile Landing Curve. This ProfileKnuckle is missing this relationship.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Run the **Clean Database** custom command to delete the objects.

ProfileSystem active entity is not related to a trace curve or a beam geometry

Message

ProfileSystem active entity is not related to a trace curve or a beam geometry.

Severity

Fatal.

Detailed Description

The profile system active entity (AE) is not related to a trace curve or a beam geometry.
Possible situations:

- Missing ProfileSystemTrace relationship to ProfileLandCrv for ProfileSystemAE.
- Must also account for those ProfileSystemAE related to Beams on GeometryToBeam. They do not have ProfileSystemTraces.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

ProfileSystem is not related to the Design nor the Planning Split AEs

Message

ProfileSystem is not related to the Design nor the Planning Split AEs.

Severity

Crucial.

Detailed Description

A profile system exists with no related design or planning split active entities. The profile system is most likely missing a child system or its part in the system hierarchy.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

ProfileSystem or an EdgeReinforcement System does not have a relationship to a ProfileSystem active entity

Message

ProfileSystem or an EdgeReinforcement System does not have a relationship to a ProfileSystem active entity.

Severity

Fatal.

Detailed Description

Either the ProfileSystem or the EdgeReinforcementSystem does not have a relationship to the ProfileSystemAE, preventing it from having geometry.

Possible Cause

Unknown.

Possible Impacts

- You cannot manipulate the object itself or other objects related to it.
- The weight and center of gravity (CoG) may not be calculated and will be invalid.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

Rotation Angle is not set for Beam

Message

Rotation Angle is not set for Beam.

Severity

High.

Detailed Description

A rotation angle is not set for the beam.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support. If possible, explain how to duplicate the situation.

Seam by Projection AE is missing its Sketched curve

Message

In Versions 6 and 6.1: Object does not have all necessary Information.

In Version 7: Seam by Projection AE is missing its Sketched curve.

Severity

Crucial.

Detailed Description

A Seam by Projection Active Entity (operation) is missing its two-dimensional sketched curve.

Another check will post the actual seam with its name.

Possible Cause

Unknown.

Possible Impacts

The Seam will not process properly.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

Seam by Projection is missing its Sketched curve

Message

Seam by Projection is missing its Sketched curve.

Severity

High.

Detailed Description

A Seam by projection is missing its two-dimensional sketch curve or the output collection for the contour.

Case 1:

In the few cases found with the two-dimensional sketched curve missing, it was also posted on the **To Do List**.

Case 2:

In most cases found, the problem was with the sketched curve missing its output collection. The seam appeared normal in the **Workspace Explorer** and in the graphic view. One can select the seam and modify it without any noticeable problems. Making any change to the projected sketched curve will correct the situation, and the next time the Check Database Integrity is run, it will be resolved.

Developer Info: The symbol does have a To Do record associated with it, which is not visible to the current user. Also, ASSERTs are noted in Debug mode when attempting to access and edit the seam.

Possible Cause

Unknown.

Possible Impacts

In case 1, the seam will not display nor can it be used for splitting.

What You Should Do

1. Open the model.

2. In the Molded Forms task, select the object, and modify it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

Seam does not have a related SeamLandCurve

Message

Seam does not have a related SeamLandCurve.

Severity

Fatal.

Detailed Description

The Seam does not have a relationship to its landing curve geometry. The Seam may be on the To Do List and could be repaired from there.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

Attempt to perform a recomputation on the active entity.

SeamAE does not have a related CSeamLandCrv

Message

SeamAE does not have a related CSeamLandCrv.

Severity

Fatal.

Detailed Description

The Seam Active Entity (SeamIntersect_AE, SeamOffset_AE, SeamProjection_AE, SeamByTable_AE) is missing its relationship to the Seam Landing Curve. A curve needed to be defined.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Run the **Clean Database** custom command to delete the object.

SeamByTable_AE does not have a related LandCrvPoints

Message

SeamByTable_AE does not have a related LandCrvPoints.

Severity

Fatal.

Detailed Description

There is a missing DefiningPoints relationship to CLandCrvPoint for SeamProject_AE. The points are required to define the seam by table. The Seam may be on the To Do List and could be repaired from there.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

Attempt to perform a recomputation on the active entity.

SeamGeometry_AE does not have related Plate Entity

Message

SeamGeometry_AE does not have a related Plate Entity.

Severity

Fatal.

Detailed Description

The SeamGeometry_AE is missing the relationship to the Plate being split. Because this object is not a first class object, the only action you can do is to delete it.

If this error is a significant problem, and the SeamGeometry_AE has a relationship to its Seam, it may be possible for a routine to be created to fix the situation.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Report the situation to Smart 3D Support.
3. Run the **Clean Database** custom command to delete the object.

SeamGeometry_AE does not have a related Seam Entity

Message

SeamGeometry_AE does not have a related Seam Entity.

Severity

Fatal.

Detailed Description

The SeamGeometry_AE is missing the relationship to its first class object, the Seam. Because this object is not a first class object, the only action you can do is to delete it.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Run the **Clean Database** custom command to delete the object.

SeamIntersection_AE does not have a related PlateGeometry

Message

SeamIntersection_AE does not have a related PlateGeometry.

Severity

Fatal.

Detailed Description

The SeamIntersection_AE is missing the relationship to the Plate or the PlatePart Base Surface Geometry being split. Because this object is not a first class object, the only action you can do is to delete it.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Run the **Clean Database** custom command to delete the object.

SeamLandCrv does not have a related Generation/StructOperation AE

Message

SeamLandCrv does not have a related Generation/StructOperation AE.

Severity

Fatal.

Detailed Description

The Seam Landing Curve is missing its relationship to either a generation AE or a Struct Operation. Because the curve does not know how it was created, it also does not know what to provide to you; therefore, deleting it is the only expected option.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Run the **Clean Database** custom command to delete the object.

SeamOffset_AE does not have a related LandingOffset

Message

SeamOffset_AE does not have a related LandingOffset.

Severity

Fatal.

Detailed Description

The SeamOffset_AE is missing the relationship to the value for the Landing curve offset.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

Attempt to perform a recomputation on the active entity.

SeamOffset_AE does not have a related PlateGeometry

Message

SeamOffset_AE does not have a related PlateGeometry.

Severity

Fatal.

Detailed Description

The SeamOffset_AE is missing the relationship to the Plate or the PlatePart Surface Geometry being split. This situation may be repairable.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

Attempt to perform a recomputation on the active entity.

SeamProject_AE does not have a related PlateGeometry

Message

SeamProject_AE does not have a related PlateGeometry.

Severity

Fatal.

Detailed Description

The SeamProject_AE is missing the relationship to the Plate or the PlatePart Surface Geometry being split.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

Attempt to perform a recomputation on the active entity.

Secondary class object in CoreSpatialIndex table

Message

Secondary class object in CoreSpatialIndex table.

Severity

Normal.

Detailed Description

A secondary class object should not be in CoreSpatialIndex. This situation might cause performance issues because the spatial index is used for in the filter functionality.

Possible Cause

A seam or profile by projection puts the base landing curve in the CoreSpatialIndex table. This is a bug in the code.

In certain cases, the geometry object is placed in this table, too. This is caused by inconsistency of the control cache flag setting during the modification.

Possible Impacts

The primary impact of this problem is in the performance of the software.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command to correct this problem. Check the box beside the object to be fixed and run the clean operation.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

Shared Attribute found on object that does not require it

Message

Shared Attribute found on object that does not require it.

Severity

Crucial.

Detailed Description

Shared Attributes, which are based on interfaces, have been created for or shared with objects that do not support the required interface. Typically, if a database has one case, it actually has

many. Therefore, when this situation is found, a non-object is noted in the database as requiring repair instead of overwhelming you by reporting each case found.

Shared Attributes were found in the database for Logical, Assembly, and Physical Connections. These objects should not have any Shared Attributes.

Stiffener and EdgeReinforcement objects were found to have Shared Attributes that are only required on Plates. Refer to TR64821, TR64495, and TR70360 (enhance the check for Shared attributes to make sure the interface is supported by the object.)

Possible Cause

Unknown. Code has been written to minimize this situation from happening in the future.

Possible Impacts

Some plates were unable to be selected and modified because their child profile systems had a relationship to the Plate's Shared Attributes defined by the IJPlate interface (TR84021). Property pages for other classes may have similar problems.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object with the OID= 4C3D4853-3B20-4d2f-8D19-5818DAF30CC2, and verify the description reflecting this error message.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

StructContinuity type/priority not being set on a Root System

Message

StructContinuity type/priority not being set on a Root System.

Severity

Crucial.

Detailed Description

The Structural Continuity for Ship Type (Continuous, Intercostal) or its priority is not set on a Root Plate, Stiffener, or Edge Reinforcement System.

Possible Cause

Unknown.

Possible Impacts

Plates and Stiffeners may fail during processing, especially in Struct Detailing where the Rules are used. The Physical Connections for profiles penetrating plates would be the prime problem.

What You Should Do

1. Select the Root System, and edit the Ship type on the property page.
2. Re-run the **Check Database Integrity** custom command to verify that this error has been fixed.

Structural Port exists without relating to a Connectable Business Object

Message

Structural Port exists without relating to a Connectable Business Object.

Severity

Fatal.

Detailed Description

A structural port exists without relating to a connectable business object.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Run the **Clean Database** custom command to delete the object.

System-derived part missing parent system - needs user attention

Message

System-derived part missing parent system - needs user attention.

Severity

High.

Detailed Description

A part that is defined by its parent's geometry is missing its parent. It could be a plate or profile part that is missing its Parent Plate or Profile System.

Possible Cause



TR 73385 has highlighted how this situation can occur. A PlatePart can be left behind if its parent PlateSystem was deleted while the PlatePart has an approval status of Approved.

Possible Impacts

Parts that should not exist will appear in the **Workspace Explorer** tree view and in the user interface.

What You Should Do

To fix the problem, select the part and delete it.

1. If the part is not in your workspace, define your workspace by permission group.
 **TIP** The part should load in the graphic view and in the **Workspace Explorer**. It will probably appear at the same level as the project folder in the **Workspace Explorer**.
2. After selecting the part, delete the part.
 **TIP** If it will not delete, verify that the status is not Approved. If it has an Approved status, change it to Working.
3. To verify the problem no longer exists, re-run the **Check Database Integrity** custom command.
4. If the problem still exists, please contact Smart 3D Support.

The Logical Connection does not have the user class set

Message

The Logical Connection does not have the user class set.

Severity

Fatal.

Detailed Description

The logical connection has not had the proper user class set by the system.

Possible Cause

Unknown.

Possible Impacts

The Logical Connection will not be updated properly.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.
4. Re-create the Logical Connection by using the **Place Logical Connection** command.

The object should be in the MoldedForms PermissionGroup

Message

The object should be in the MoldedForms PermissionGroup.

Severity

High.

Detailed Description

There is a Permission Group for Molded Forms objects. This object should be in the Molded Forms Permission Group, but it is not.

Possible Cause

The object may have been created prior to the creation of the Molded Forms Permission Group.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command.
3. Select the object in the list of objects.
4. Click **Clean Now** to place the object in the MoldedForms Permission Group.

The root logical connection is using a leaf system port instead of a root system port

Message

The root logical connection is using a leaf system port instead of a root system port.

Severity

Fatal.

Detailed Description

Improvements made to the logical connections require that the root logical connection be associated with ports of root systems and not leaf systems. The logical connection in error still has a relationship to a leaf system instead of a root system.

Possible Cause

The database may not have been migrated properly.

Possible Impacts

Updates to the associated structure will put the logical connection onto the To Do List. If the structure is detailed, the assembly and physical connections will fail to be created.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command to fix the connections with this error.

There is a duplicate relationship between the same two objects

Message

There is a duplicate relationship between the same two objects.

Severity

Normal.

Detailed Description

A duplicate relationship exists between objects.

Possible Cause

Unknown. But, this problem has been found for the ShipStructure hierarchy (parent – child in tree view) relationships and for the Plate Bound operators 3 (PlateBound_OPER3) relationship. If you have ideas on how this problem happens, please share them with Smart 3D Support.

Possible Impacts

Unknown. But, there is a potential for problems.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object (object type may be unknown) that has the above error message.
4. Click **Clean Now**. All objects that have this problem will be corrected.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

Unnecessary object is added to the To Do List

Message

Unnecessary object is added to the To Do List.

Severity

High.

Detailed Description

When swapping Hulls with Permission groups to prevent updates to Molded forms, Logical connections are being placed on the To Do List. These Logical Connections cannot be removed

from the To Do List even when permissions are given to Molded Forms, and the Logical Connection is updated via the To Do List window. Therefore, these objects need to be removed from the To Do List table using a tool.

Possible Cause

When swapping Hulls with Permission groups to prevent updates to Molded forms, Logical connections are being placed on the To Do List.

Possible Impacts

Too many items on the To Do List that cannot be removed directly by you.

What You Should Do

1. Back up the database.
2. Delete the record by running the **Clean Database** custom command.

Molded Forms Permission Group Messages

This section contains Molded Forms permission group database integrity messages.

CreateCollar_AE PG does not match with CollarPart PG

Message

CreateCollar_AE PG does not match with CollarPart PG.

Severity

High.

Detailed Description

The CreateCollar_AE permission group does not match the CollarPart permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.

5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

CreatePlatePart_AE PG does not match with Plate Part PG

Message

CreatePlatePart_AE PG does not match with Plate Part PG.

Severity

High.

Detailed Description

The CreatePlatePart_AE permission group does not match the Plate Part permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

Custom Component PG does not match PG of Sketched Feature

Message

Custom Component PG does not match PG of Sketched Feature.

Severity

High.

Detailed Description

The Custom Component permission group does not match the permission group of the Sketched Feature.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

Cut_AE PG does not match Feature PG

Message

Cut_AE PG does not match Feature PG.

Severity

High.

Detailed Description

The Cut_AE permission group does not match the Feature permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

Design/Planning Split_AE PG does not match with System PG

Message

Design/Planning Split_AE PG does not match with System PG.

Severity

High.

Detailed Description

The Design/Planning Split_AE permission group does not match the System permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.

6. If the object is still posted, contact Smart 3D Support.

Detailing AE PG does not match with Plate Part PG

Message

Detailing AE PG does not match with Plate Part PG.

Severity

High.

Detailed Description

The Detailing AE permission group does not match the Plate Part permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

Edge Treatment PG does not match PG of parent (Part/Edge Feature)

Message

Edge Treatment PG does not match PG of parent (Part/Edge Feature).

Severity

High.

Detailed Description

The Edge Treatment permission group does not match the permission group of the parent (Part/Edge Feature).

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

Feature Definition Point (Input) PG does not match with Feature PG

Message

Feature Definition Point (Input) PG does not match with Feature PG.

Severity

High.

Detailed Description

The Feature Definition Point (Input) permission group does not match the Feature permission group.

Possible Cause

Unknown.

Possible Impacts

Type what can happen because of this problem.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.

5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

Feature Definition Point (Output) PG does not match with Feature PG

Message

Feature Definition Point (Output) PG does not match with Feature PG.

Severity

High.

Detailed Description

The Feature Definition Point (Output) permission group does not match the Feature permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

Free end cuts PG does not match Part PG

Message

Free end cuts PG does not match Part PG.

Severity

High.

Detailed Description

The Free end cuts permission group does not match the Part permission group. The profile's free end cuts permission group does not match the Profile part.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

HierarchyNamingAE PG does not match PG of Relation Destination

Message

HierarchyNamingAE PG does not match PG of Relation Destination.

Severity

High.

Detailed Description

The HierarchyNamingAE permission group does not match the permission group of the Relation Destination.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

Last Geometry PG does not match PG of the Object

Message

Last Geometry PG does not match PG of the Object.

Severity

High.

Detailed Description

The Last Geometry permission group does not match the permission group of the Object.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

NameRuleAE PG does not match PG of Relation Destination

Message

NameRuleAE PG does not match PG of Relation Destination.

Severity

High.

Detailed Description

The NameRuleAE permission group does not match the permission group of the Relation Destination.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

Operation_AE PG does not match with Plate System PG

Message

Operation_AE PG does not match with Plate System PG.

Severity

High.

Detailed Description

The Operation_AE permission group does not match the Plate System permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

PartReportData PG does not match with Part PG

Message

PartReportData PG does not match with Part PG.

Severity

High.

Detailed Description

The PartReportData permission group does not match the Part permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

PG of Feature on FreeEndCut does not match with Part PG

Message

PG of Feature on FreeEndCut does not match with Part PG.

Severity

High.

Detailed Description

The permission group of the Feature on the FreeEndCut does not match the Part permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

PG of Geometry after Operation_AE does not match with PG of Seam

Message

PG of Geometry after Operation_AE does not match with PG of Seam.

Severity

High.

Detailed Description

The permission group of Geometry after Operation_AE does not match the permission group of the Seam.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

PG of Geometry after ProfilePartGeneration_AE does not match with PG of Profile Part

Message

PG of Geometry after ProfilePartGeneration_AE does not match with PG of Profile Part.

Severity

High.

Detailed Description

The permission group of Geometry after ProfilePartGeneration_AE does not match the permission group of the Profile Part.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.

5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

PG of LC created by seams does not match with the Parent PG

Message

PG of LC created by seams does not match with the Parent PG.

Severity

High.

Detailed Description

The permission group of logical connection created by seams does not match the Parent permission group.

Possible Cause

The object may have been created before the creation of the Molded Forms Permission Group.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

PG of PlatePartGeometry after CreatePlatePart_AE does not match with PG of Plate Part

Message

PG of PlatePartGeometry after CreatePlatePart_AE does not match with PG of Plate Part.

Severity

High.

Detailed Description

The permission group of PlatePartGeometry after CreatePlatePart_AE does not match the permission group of the Plate Part.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

PG of Seam LandCrvBound_AE does not match with PG of Plate Part

Message

PG of Seam LandCrvBound_AE does not match with PG of Plate Part.

Severity

High.

Detailed Description

The permission group of Seam LandCrvBound_AE does not match with the permission group of the Plate Part.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

Plate Knuckle PG does not match with Plate System PG

Message

Plate Knuckle PG does not match with Plate System PG.

Severity

High.

Detailed Description

The Plate Knuckle permission group does not match with the Plate System permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

PlateBound_AE / PlateCutOut_AE InPut Geometry PG does not match with Plate System PG

Message

PlateBound_AE / PlateCutOut_AE InPut Geometry PG does not match with Plate System PG.

Severity

High.

Detailed Description

The PlateBound_AE / PlateCutOut_AE InPut Geometry permission group does not match the Plate System permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

PlateBound_AE / PlateCutOut_AE PG does not match with Plate System PG

Message

PlateBound_AE / PlateCutOut_AE PG does not match with Plate System PG.

Severity

High.

Detailed Description

The PlateBound_AE / PlateCutOut_AE permission group does not match the Plate System permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

PlateCutOut_AE InPut Geometry PG does not match with Plate System PG

Message

PlateCutOut_AE InPut Geometry PG does not match with Plate System PG.

Severity

High.

Detailed Description

The PlateCutOut_AE InPut Geometry permission group does not match the Plate System permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.

5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

PlateCutOut_AE PG does not match with Plate System PG

Message

PlateCutOut_AE PG does not match with Plate System PG.

Severity

High.

Detailed Description

The PlateCutOut_AE permission group does not match the Plate System permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

PlatePartGeometry PG does not match with Plate Part PG

Message

PlatePartGeometry PG does not match with Plate Part PG.

Severity

High.

Detailed Description

The PlatePartGeometry permission group does not match with the Plate Part permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

Profile Knuckle PG does not match with Profile System PG

Message

Profile Knuckle PG does not match with Profile System PG.

Severity

High.

Detailed Description

The Profile Knuckle permission group does not match with the Profile System permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

ProfileKnuckle LandingCurve does not match with Profile System PG

Message

ProfileKnuckle LandingCurve does not match with Profile System PG.

Severity

High.

Detailed Description

The ProfileKnuckle LandingCurve permission group does not match the Profile System permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

ProfilePartGeneration_AE PG does not match with Profile Part PG

Message

ProfilePartGeneration_AE PG does not match with Profile Part PG.

Severity

High.

Detailed Description

The ProfilePartGeneration_AE permission group does not match the Profile Part permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

ProfileTrim_AE PG does not match PG of Profile Struct Feature

Message

ProfileTrim_AE PG does not match PG of Profile Struct Feature.

Severity

High.

Detailed Description

The ProfileTrim_AE permission group does not match the permission group of the Profile Struct Feature.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.

5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

Seam landing offset PG does not match with PG of Seam

Message

Seam landing offset PG does not match with PG of Seam.

Severity

High.

Detailed Description

The Seam landing offset permission group does not match with the permission group of the Seam.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

Seam Operation_AE PG does not match with PG of Seam

Message

Seam Operation_AE PG does not match with PG of Seam.

Severity

High.

Detailed Description

The Seam Operation_AE permission group does not match the permission group of the Seam.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

SeamGeometry_AE PG does not match with Seam PG

Message

SeamGeometry_AE PG does not match with Seam PG.

Severity

High.

Detailed Description

The SeamGeometry_AE permission group does not match the Seam permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

Sketch feature PG does not match with Part PG

Message

Sketch feature PG does not match with Part PG.

Severity

High.

Detailed Description

The Sketch feature permission group does not match with the Part permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

SketchReferenceCol PG does not match PG of Sketched Feature

Message

SketchReferenceCol PG does not match PG of Sketched Feature.

Severity

High.

Detailed Description

The SketchReferenceCol permission group does not match the permission group of the Sketched Feature.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

StdPlateSystemNamingAE PG does not match PG of StdPlateSystem

Message

StdPlateSystemNamingAE PG does not match PG of StdPlateSystem.

Severity

High.

Detailed Description

The StdPlateSystemNamingAE permission group does not match the permission group of the StdPlateSystem.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.

5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

StrikeSplit_AE PG does not match with SeamSeamPoint PG

Message

StrikeSplit_AE PG does not match with SeamSeamPoint PG.

Severity

High.

Detailed Description

The StrikeSplit_AE permission group does not match the SeamSeamPoint permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The AC PG does not match the Part PG

Message

The AC PG does not match the Part PG.

Severity

High.

Detailed Description

The assembly connection permission group does not match the part permission group. The permission group of the assembly connection should be the same as the part (dependent part) permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The Beam Point3d PG does not match with Beam Stand Alone Part PG

Message

The Beam Point3d PG does not match with Beam Stand Alone Part PG.

Severity

High.

Detailed Description

The Beam Point3d permission group does not match the Beam Stand Alone Part permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.

5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The BeamAssoc Point PG does not match with BeamSystem PG

Message

The BeamAssoc Point PG does not match with BeamSystem PG.

Severity

High.

Detailed Description

The BeamAssoc Point permission group does not match the BeamSystem permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The BeamGeneration_AE PG does not match with Beam Stand Alone Part PG

Message

The BeamGeneration_AE PG does not match with Beam Stand Alone Part PG.

Severity

High.

Detailed Description

The BeamGeneration_AE permission group does not match the Beam Stand Alone Part permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The BeamGeneration_AE PG does not match with BeamSystem PG

Message

The BeamGeneration_AE PG does not match with BeamSystem PG.

Severity

High.

Detailed Description

The BeamGeneration_AE permission group does not match the BeamSystem permission group.

Possible Cause

Unknown.

Possible Impacts

Type what can happen because of this problem.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.

3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The BeamLandCurve_Input PG does not match with BeamSystem PG

Message

The BeamLandCurve_Input PG does not match with BeamSystem PG.

Severity

High.

Detailed Description

The BeamLandCurve_Input permission group does not match the BeamSystem permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The BeamLandingCrv PG does not match with BeamSystem PG

Message

The BeamLandingCrv PG does not match with BeamSystem PG.

Severity

High.

Detailed Description

The BeamLandingCrv permission group does not match the BeamSystem permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The BeamStandAlonePart_AE PG does not match with Beam Stand Alone Part PG

Message

The BeamStandAlonePart_AE PG does not match with Beam Stand Alone Part PG.

Severity

High.

Detailed Description

The BeamStandAlonePart_AE permission group does not match the Beam Stand Alone Part permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The BeamSystem_AE PG does not match with Beam System PG

Message

The BeamSystem_AE PG does not match with Beam System PG.

Severity

High.

Detailed Description

The BeamSystem_AE permission group does not match with the Beam System permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.

5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The BracketByPlane definition point PG does not match the BracketByPlane PG

Message

The BracketByPlane definition point PG does not match the BracketByPlane PG.

Severity

High.

Detailed Description

The defining points needed for the BracketByPlane plate system have a different Permission Group (PG) than that of the BracketByPlane plate system. The defining points need to have the same permission group as the plate system.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The BracketByPlane definition ReferenceCollection PG does not match the BracketByPlane PG

Message

The BracketByPlane definition ReferenceCollection PG does not match the BracketByPlane PG.

Severity

High.

Detailed Description

The defining ReferenceCollection, which provides symbol information needed for the BracketByPlane plate system, has a different Permission Group (PG) than that of the BracketByPlane plate system. The ReferenceCollection must have the same permission group as the plate system.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The child LC PG does not match with the root LC PG

Message

The child LC PG does not match with the root LC PG.

Severity

High.

Detailed Description

The child logical connection's permission group does not match the root logical connection's permission group.

Possible Cause

Unknown.

Possible Impacts

Type what can happen because of this problem.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The collar PG does not match Part PG

Message

The collar PG does not match Part PG.

Severity

High.

Detailed Description

The collar's permission group does not match the part's permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The feature PG does not match with its part PG

Message

The feature PG does not match with its part PG.

Severity

High.

Detailed Description

The feature's permission group does not match its part's permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The IntersectionAE PG does not match with Feature PG

Message

The IntersectionAE PG does not match with Feature PG.

Severity

High.

Detailed Description

The IntersectionAE (Active Entity) for the Feature's Definition Point does not have a Permission Group that matches the Feature's Permission Group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The LandCrvBound_AE PG does not match with BeamSystem PG

Message

The LandCrvBound_AE PG does not match with BeamSystem PG.

Severity

High.

Detailed Description

The LandCrvBound_AE permission group does not match the BeamSystem permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The Landing Curve PG does not match with Standalone Stiffener PG

Message

The Landing Curve PG does not match with Standalone Stiffener PG.

Severity

High.

Detailed Description

The Landing Curve permission group does not match the Standalone Stiffener permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The Landing Offset PG does not match with Profile System PG

Message

The Landing Offset PG does not match with Profile System PG.

Severity

High.

Detailed Description

The Landing Offset permission group does not match the Profile System permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The LandingCrvBound_AE PG does not match with Profile System PG

Message

The LandingCrvBound_AE PG does not match with Profile System PG.

Severity

High.

Detailed Description

The LandingCrvBound_AE permission group does not match the Profile System permission group.

Possible Cause

Unknown.

Possible Impacts

Type what can happen because of this problem.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.

5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The LandingCrvPoint PG does not match with Profile System PG

Message

The LandingCrvPoint PG does not match with Profile System PG.

Severity

High.

Detailed Description

The LandingCrvPoint permission group does not match the Profile System permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The LandingCrv_AE PG does not match with ProfileSystem PG

Message

The LandingCrv_AE PG does not match with ProfileSystem PG.

Severity

High.

Detailed Description

The LandingCrv_AE permission group does not match the ProfileSystem permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The LandOffset does not match with Edge Feature PG

Message

The LandOffset does not match with Edge Feature PG.

Severity

High.

Detailed Description

The LandOffset does not match the Edge Feature permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.

4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The leaf part PG does not match the root part PG

Message

The leaf part PG does not match the root part PG.

Severity

High.

Detailed Description

The leaf part's permission group does not match the root part's permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The Leaf ProfileLandCrv PG does not match with Leaf ProfileSystem PG

Message

The Leaf ProfileLandCrv PG does not match with Leaf ProfileSystem PG.

Severity

High.

Detailed Description

The Leaf ProfileLandCrv permission group does not match the Leaf ProfileSystem permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The Leaf ProfileSys Region PG does not match with Leaf Profile System PG

Message

The Leaf ProfileSys Region PG does not match with Leaf Profile System PG.

Severity

High.

Detailed Description

The Leaf ProfileSys Region permission group does not match the Leaf Profile System permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.

2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The Leaf ProfileSystem_AE PG does not match with Leaf ProfileSystem PG

Message

The Leaf ProfileSystem_AE PG does not match with Leaf ProfileSystem PG.

Severity

High.

Detailed Description

The Leaf ProfileSystem_AE permission group does not match the Leaf ProfileSystem permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The leaf system PG does not match root system PG

Message

The leaf system PG does not match root system PG.

Severity

High.

Detailed Description

The leaf system permission group does not match the root system permission group. When the root system permission group is changed to another permission group, the leaf system is not also changed to the new permission group.

Possible Cause

The object may have been created before the creation of the Molded Forms permission group.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The OffsetPt_AE does not match with Edge Feature PG

Message

The OffsetPt_AE does not match with Edge Feature PG.

Severity

High.

Detailed Description

The OffsetPt_AE permission group does not match the Edge Feature permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The Opening PG does not match root system PG

Message

The Opening PG does not match root system PG.

Severity

High.

Detailed Description

The Opening permission group does not match the root system permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The PG of Chamfer does not match with Part PG

Message

The PG of Chamfer does not match with Part PG.

Severity

High.

Detailed Description

The permission group of the Chamfer does not match Part permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The PG of PC on AC does not match Parent PG

Message

The PG of PC on AC does not match Parent PG.

Severity

High.

Detailed Description

The permission group of a physical connection on an assembly connection does not match the Parent permission group.

Possible Cause

Unknown.

Possible Impacts

Type what can happen because of this problem.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The PG of PhysicalConnection on Collar does not match with Part PG

Message

The PG of PhysicalConnection on Collar does not match with Part PG.

Severity

High.

Detailed Description

The permission group of a PhysicalConnection on a Collar does not match the Part permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The PG of PhysicalConnection on Feature does not match with Part PG

Message

The PG of PhysicalConnection on Feature does not match with Part PG.

Severity

High.

Detailed Description

The permission group of a PhysicalConnection on a Feature does not match the Part permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The PointOnGeom_AE PG does not match with Feature PG

Message

The PointOnGeom_AE PG does not match with Feature PG.

Severity

High.

Detailed Description

The PtOnGeom_AE (ActiveEntity) for the Feature's Definition Point belongs to a Permission Group that is different from the Feature's Permission Group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The PointOnSurfByTwoCoords_AE PG does not match with Profile System PG

Message

The PointOnSurfByTwoCoords_AE PG does not match with Profile System PG.

Severity

High.

Detailed Description

The PointOnSurfByTwoCoords_AE permission group does not match the Profile System permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.

5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The ProfileLandCrv PG does not match with ProfileSystem PG

Message

The ProfileLandCrv PG does not match with ProfileSystem PG.

Severity

High.

Detailed Description

The ProfileLandCrv permission group does not match the ProfileSystem permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The ProfileLandCrvInPut PG does not match with Profile System PG

Message

The ProfileLandCrvInPut PG does not match with Profile System PG.

Severity

High.

Detailed Description

The ProfileLandCrvInPut permission group does not match the Profile System permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The ProfilePartCreation PG does not match with StandAloneStiffener PG

Message

The ProfilePartCreation PG does not match with StandAloneStiffener PG.

Severity

High.

Detailed Description

The ProfilePartCreation permission group does not match the StandAloneStiffener permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.

3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The ProfilePartPath PG does not match with StandAlone Stiffener PG

Message

The ProfilePartPath PG does not match with StandAlone Stiffener PG.

Severity

High.

Detailed Description

The ProfilePartPath permission group does not match the StandAlone Stiffener permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The ProfileSysRegion PG does not match with ProfileSystem PG

Message

The ProfileSysRegion PG does not match with ProfileSystem PG.

Severity

High.

Detailed Description

The ProfileSysRegion permission group does not match the ProfileSystem permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The ProfileSystem_AE PG does not match with Profile System PG

Message

The ProfileSystem_AE PG does not match with Profile System PG.

Severity

High.

Detailed Description

The ProfileSystem_AE permission group does not match the Profile System permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The Ref Curve PG does not match root system PG

Message

The Ref Curve PG does not match root system PG.

Severity

High.

Detailed Description

The Ref Curve permission group does not match the root system permission group. For example, the permission group for the reference curves of the hull does not match the permission group for the hull.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.

5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The root LC PG does not match with the dependent system

Message

The root LC PG does not match with the dependent system.

Severity

High.

Detailed Description

The permission group of the root logical connection does not match the permission group of the dependent system. The permission group of the root logical connection should be the same as the permission group of the dependent part.

Possible Cause

The object may have been created before the creation of the Molded Forms permission group.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The rule-based features PG does not match Part PG

Message

The rule-based features PG does not match Part PG.

Severity

High.

Detailed Description

The permission group for rule-based features does not match the Part permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The Seam PG does not match root system PG

Message

The Seam PG does not match root system PG.

Severity

High.

Detailed Description

The Seam permission group does not match the root system permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The SharedAttEntityBag PG does not match with Parent PG

Message

The SharedAttEntityBag PG does not match with Parent PG.

Severity

High.

Detailed Description

The permission group of the SharedAttEntityBag does not match with its parent permission group. The parent may be a root system, leaf system, or a part.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The ShpStrEdgeFeatOffPt_OUT does not match with Edge Feature PG

Message

The ShpStrEdgeFeatOffPt_OUT does not match with Edge Feature PG.

Severity

High.

Detailed Description

The ShpStrEdgeFeatOffPt_OUT permission group does not match the Edge Feature permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The Symbol PG does not match the BeamSystem PG

Message

The Symbol PG does not match the BeamSystem PG.

Severity

High.

Detailed Description

The Symbol permission group does not match the BeamSystem permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The Symbol PG does not match with Beam StandAlone Part PG

Message

The Symbol PG does not match with Beam StandAlone Part PG.

Severity

High.

Detailed Description

The Symbol permission group does not match the Beam StandAlone Part permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The Symbol PG does not match with ProfileSystem PG

Message

The Symbol PG does not match with ProfileSystem PG.

Severity

High.

Detailed Description

The Symbol permission group does not match the ProfileSystem permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The Symbol PG does not match with StandAloneStiffener PG

Message

The Symbol PG does not match with StandAloneStiffener PG.

Severity

High.

Detailed Description

The Symbol permission group does not match the StandAloneStiffener permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The TrackPoint3D PG does not match with Feature PG

Message

The TrackPoint3D PG does not match with Feature PG.

Severity

High.

Detailed Description

The TrackPoint3D permission group does not match the Feature permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The Tripping Assoc Point PG does not match with Profile System PG

Message

The Tripping Assoc Point PG does not match with Profile System PG.

Severity

High.

Detailed Description

The Tripping Assoc Point permission group does not match the Profile System permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The WireBody2 PG does not match with ProfileSystem PG

Message

The WireBody2 PG does not match with ProfileSystem PG.

Severity

High.

Detailed Description

The WireBody2 permission group does not match the ProfileSystem permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

The WireBody2 PG does not match with StandAlone Stiffener PG

Message

The WireBody2 PG does not match with StandAlone Stiffener PG.

Severity

High.

Detailed Description

The WireBody2 permission group does not match the StandAlone Stiffener permission group.

Possible Cause

Unknown.

Possible Impacts

You cannot manipulate the object itself or other objects related to it.

What You Should Do

1. Ask your database administrator to back up the model.
2. In the software, click **Tools > Custom Commands**, and run the **Clean Database** custom command.
3. Select the object(s) to be repaired.
4. Click **Clean Now**.
5. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
6. If the object is still posted, contact Smart 3D Support.

SECTION 18

Piping

This section contains Piping database integrity messages.

Feature has an Offline relation without a 'HasTapFeature' relation

Message

Feature has an Offline relation without a HasTapFeature relation.

Severity

Crucial.

Detailed Description

Pipe end or turn feature which has an offline relation should also have a HasTapFeature relation.

Possible Cause

Unknown.

Possible Impacts

Any modification of the object will fail.

What You Should Do

Use the **Clean Database** custom command to create the missing relation.

Non-spool object with SpoolHierarchy relation to ConfigProjectRoot

Message

Non-spool object with SpoolHierarchy relation to ConfigProjectRoot.

Severity

High.

Detailed Description

Non-spool object should not have a relation with ConfigProjectRoot.

Possible Cause

Unknown.

Possible Impacts

Any modification of the object will fail.

What You Should Do

Use the **Clean Database** custom command to delete the relationship between the ConfigProjectRoot and the non-spool object.

SECTION 19

Planning

This section contains Planning database integrity messages.

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An Assembly has itself as a parent in the AssemblyHierarchy

Message

An Assembly has itself as a parent in the AssemblyHierarchy.

Severity

Fatal.

Detailed Description

The assembly has itself as a parent in the AssemblyHierarchy. The assembly may not be visible on the **Assembly** tab of the **Workspace Explorer**.

Possible Cause

It was possible at one time to drag and drop an assembly on top of itself.

Possible Impacts

There is a potential for infinite loops. Due to relationship limitations, the assembly may disappear from the **Assembly** tab of the **Workspace Explorer** and will no longer have a direct or indirect relationship to the B0 block.

What You Should Do

A database integrity repair SQL script or COM tool has been provided to correct this problem.

1. Open the model.
2. Run the **Clean Database** custom command.
3. Select the object in the list of objects.
4. Click **Clean Now** to repair the object.

Block Assemblies must have topological blocks underneath

Message

Block Assemblies must have topological blocks underneath.

Severity

Normal: Should not impact you.

Detailed Description

Block assemblies must have blocks in them. During the creation of block assemblies, the software checks to ensure that invalid block assemblies are not created. However, block assemblies can be emptied without removing blocks.

Possible Cause

The cause is removal of all blocks from a block assembly.

Possible Impacts

This situation should have no impact on the end user.

What You Should Do

Delete the object using one of the following methods:

- Select the object in the **Workspace Explorer**, and delete it.
- Run the **Clean Database** custom command to delete the object.

Common part group is not implemented

Message

Common part group is not implemented.

Severity

Fatal.

Detailed Description

The common part group has been deprecated and is no longer needed. Lingering data in the database associated with common part groups could cause data model errors.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Common groups are not valid anymore and, as such, will not be able to report the correct information to you. Also, any data that exists could cause fatal data model errors.

What You Should Do

Run the **Clean Database** custom command to delete the object.

Migration to V6.1 should have removed all objects in the PLANNGAssemblyReportData table

Message

Migration to V6.1 should have removed all objects in the PLANNGAssemblyReportData table.

Severity

Normal: Should not affect you.

Detailed Description

The PLANNGAssemblyReportData table should have been tombstoned and all objects on it removed during migration. If this operation did not occur properly, it could cause asserts for builds registered in Debug mode, and may have negative impacts on other operations that are scheduled to be implemented in the future.

Possible Cause

This situation could be caused by improper migration to V6.1 or errors during migration that were not properly handled.

Possible Impacts

This problem should have no impact on the end user at this time.

What You Should Do

Ask your database administrator to verify migration, and re-run the RemovePlanningReportData SQL script.

Planning Block Assembly is above the B0 Block

Message

Planning Block Assembly is above the B0 Block.

Severity

Normal: Should not impact you.

Detailed Description

Block assemblies are the only object that the end user is allowed to drag and drop blocks into. In the past, the B0 block has been dropped into a block assembly. B0 must remain the child of the project root for numerous reasons.

Possible Cause

The cause is dragging and dropping the B0 block into a block assembly.

Possible Impacts

This problem should not impact you.

What You Should Do

Run the **Clean Database** custom command to correct the relationships of the object.

Planning Block Assembly is at the same level as the B0 Block

Message

Planning Block Assembly is at the same level as the B0 Block.

Severity

Normal: Should not impact you.

Detailed Description

Block assemblies must be the children of a block. Block assemblies with this error, however, are children of the project root, as B0 is.

Possible Cause

The cause is drag and drop errors.

Possible Impacts

This problem should have no impact on you.

What You Should Do

A database integrity repair SQL script or COM tool has been provided to correct this problem.

1. Open the model.
2. Run the **Clean Database** custom command.
3. Select the object in the list of objects.
4. Click **Clean Now** to repair the object.

The intersection object is related to a system instead of a part

Message

The intersection object is related to a system instead of a part.

Severity

Fatal.

Detailed Description

With the implementation of split notification, the Planning intersection object can now be properly migrated as parts are split with planning seams. When a part is split, the associated intersection object no longer needs to be moved to the system. The intersection object in error still has a relationship with a system instead of a part.

Possible Cause

The intersection object may have been created in an older version of the software, and the migration command failed to modify the relationship.

Possible Impacts

The adding and removing of planning splits may fail.

What You Should Do

1. Open the model.
 2. Run the Planning V6.1 middle tier migration command (PlnIntersectionMigration.Migrate).
- This command updates the older objects with the new relationship.

The object should be in the Planning PermissionGroup

Message

The object should be in the Planning PermissionGroup.

Severity

High.

Detailed Description

There is a Permission Group for Planning objects. This object should be in the Planning Permission Group, but it is not.

Possible Cause

The object may have been created prior to the creation of the Planning Permission Group.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command.
3. Select the object in the list of objects.
4. Click **Clean Now** to place the object in the Planning Permission Group.

The PLANNGAssemblyBase table is missing the BlobSize column

Message

The PLANNGAssemblyBase table is missing the BlobSize column.

Severity

Crucial.

Detailed Description

The implementation of Copy Similar functionality in V6 required the addition of several new tables in the Model and Catalog databases. The new tables are created in a V5 database during migration. The PLANNGAssemblyBase table does not have the new BlobSize field.

Possible Cause

Migration to V6 of a database created on an earlier version was not performed or was not successful.

Possible Impacts

The Copy Similar functionality will not work.

What You Should Do

1. Run the Query Analyzer.
2. Select the script that adds new columns to the PLANNGAssemblyBase table. The script location is: *[Product Folder]\Planning\Server\Schema\Sql\VersionMigration\V5toV6\UpdateAsmBaseTable.sql*.
3. Execute the script against the Model database.

The PLANNGAssemblyBase table is missing the ConnectivityInfo column

Message

The PLANNGAssemblyBase table is missing the ConnectivityInfo column.

Severity

Crucial.

Detailed Description

The implementation of Copy Similar functionality in V6 required the addition of several new tables in the Model and Catalog databases. The new tables are created in a V5 database during migration. The PLANNGAssemblyBase table does not have the new ConnectivityInfo field.

Possible Cause

Migration to V6 of a database created on an earlier version was not performed or was not successful.

Possible Impacts

The Copy Similar functionality will not work.

What You Should Do

1. Run the Query Analyzer.
2. Select the script that adds new columns to the PLANNGAssemblyBase table. The script location is: *[Product Folder]\Planning\Server\Schema\Sql\VersionMigration\V5toV6\UpdateAsmBaseTable.sql*.
3. Execute the script against the Model database.

There is more than one B0 block inside the DB

Message

There is more than one B0 block inside the DB.

Severity

Crucial.

Detailed Description

There is more than one root block (B0). All programmatic design decisions were based on having only one root block (B0).

Possible Cause

This error could be caused by several users entering Planning at nearly the same time, when the B0 block had not yet been created.

Possible Impacts

This situation could cause the loss of ability to interact with some objects in the database through the assembly hierarchy.

What You Should Do

A database integrity repair SQL script or COM tool has been provided to correct this problem.

1. Open the model.
2. Run the **Clean Database** custom command.
3. Select the object in the list of objects.
4. Click **Clean Now** to repair the object.

There is more than one parent in the DB for a child Assembly

Message

There is more than one parent in the DB for a child Assembly.

Severity

Fatal.

Detailed Description

An Assembly has been located that has more than one parent. An Assembly should always have only one parent.

Possible Cause

Programmatic error or failure during database commit.

Possible Impacts

There is the potential for an infinite loop.

What You Should Do

An SQL script, Planning\FixChildPartsWithMoreThanOneParent.sql, has been written as the Repair Tool for this item. The repair may be accomplished through the use of the Database Integrity process.

The script performs the following:

1. Removes the existing AssemblyHierarchy relations of the corrupted part.
2. Adds the corrupted part as a child of UnprocessedParts of the root block. If the root block does not have the UnProcessedParts folder, then the script adds it as the child of the root block itself.

SECTION 20

Project Management

This section contains Project Management database integrity messages.

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A 3D Reference object has an incorrect parent in the hierarchy

Message

A 3D Reference object has an incorrect parent in the hierarchy.

Severity

High.

Detailed Description

A 3D reference object that has a reference parent/child relationship to a 3D reference parent object of an incorrect type has been found in the database. This message will be displayed for any of three situations:

1. An R3DRoot object has a ReferenceHierarchy relationship with a parent object that is not a folder parent.
2. An R3DProject object has an R3DHierarchy relationship with a parent object that is not an R3DRoot object.
3. An R3DAttachFile object has an R3DHierarchy relationship with a parent object that is not an R3DProject object.

Possible Cause

These are unexpected errors with no known causes.

Possible Impacts

The 3D references may not be displayed correctly due to confusion about the proper reference hierarchy.

What You Should Do

A repair command is provided for the two cases where the child object is an R3DRoot or an R3DProject object:

1. Open the model.
2. Click **Tools > Custom Commands**.
3. Run the **Clean Database** custom command.
4. On the **Clean Database** dialog box, select the object displayed with the message identified above.
5. Click **Clean Now**.

This operation will delete the old relationship and create a new relationship between the R3DRoot object and the R3DProject object, or between a parent folder object and the R3DRoot object.

6. Close the **Clean Database** dialog box.
7. **Save** and **Exit** the session.

It is impossible for the repair command to know which available R3DProject, if any, is appropriate as a parent object for an orphan R3DAttachFile object, so no automatic repair action can be provided. You will have to correct the problem manually.

A 3D Reference object has more than one parent in the hierarchy

Message

A 3D Reference object has more than one parent in the hierarchy.

Severity

High

Detailed Description

A 3D reference object that has more than one relationship to a 3D reference parent object has been found in the database. This message will be displayed for any of three situations:

1. An R3DRoot object has two or more ReferenceHierarchy relationships to a folder parent object.
2. An R3DProject object has two or more R3DHierarchy relationships with a parent R3DRoot object.
3. An R3DAttachFile has two or more R3DHierarchy relationships with a parent R3DProject object.

Possible Cause

These are unexpected errors with no known causes.

Possible Impacts

The 3D references may not be displayed correctly due to confusion about the proper reference hierarchy.

What You Should Do

A repair command is provided for this problem:

1. Open the model.
2. Click **Tools > Custom Commands**.
3. Run the **Clean Database** custom command.
4. On the **Clean Database** dialog select the object displayed with the message identified above.
5. Click **Clean Now**.

This operation removes all but one R3DHierarchy relationship or ReferenceHierarchy relationship between the 3D reference parent and child objects.

6. **Close** the **Clean Database** dialog box.
7. **Save** and **Exit** the session.

A 3D Reference object has no parent in the hierarchy

Message

A 3D Reference object has no parent in the hierarchy.

Severity

High.

Detailed Description

A 3D reference object that has no relationship to a 3D reference parent object has been found in the database. This message will be displayed for any of three situations:

1. An R3DRoot object does not have a ReferenceHierarchy relationship to a folder parent object.
2. An R3DProject object does not have an R3DHierarchy relationship with a parent R3DRoot object.
3. An R3DAttachFile object does not have an R3DHierarchy relationship with a parent R3DProject object.

Possible Cause

These are unexpected errors with no known causes.

Possible Impacts

The hierarchy of 3D References will not be displayed correctly in the references tab of the workspace explorer.

What You Should Do

A repair command is provided for the two cases where the child object is an R3DRoot or an R3DProject object:

1. Open the model.
2. Click **Tools > Custom Commands**.
3. Run the **Clean Database** custom command.
4. On the **Clean Database** dialog box select the object displayed with the message identified above.
5. Click **Clean Now**. This operation will create a new relationship between the R3DRoot object and an orphan R3DProject object, or between a parent folder object and an orphan R3DRoot object.
6. Close the **Clean Database** dialog box.
7. **Save** and **Exit** the session.

It is impossible for the repair command to know which available R3DProject, if any, is appropriate as a parent object for an orphan R3DAttachFile object, so no automatic repair action can be provided. You will have to correct the problem manually.

Access Control Rule is not associated to Permission Group

Message

Access Control Rule is not associated to Permission Group.

Severity

Low.

Detailed Description

The Access Control Rule object is not related to the Permission Group object anymore.

Possible Cause

This error is reported under the following circumstances:

1. When the corresponding permission group is deleted for unknown reasons.
2. Deletion of model. Due to some design constraints, access control rules are not cleaned up when deleting the model. This situation will be corrected in future releases.

Possible Impacts

None.

What You Should Do

No action.

Database is not associated to any plant

Message

Database is not associated to any plant.

Severity

Fatal.

Detailed Description

Database is not related to a plant in the Site database.

Possible Cause

This situation may happen when there are unexpected errors when deleting the model. In all other circumstances, the cause is currently unknown.

Possible Impacts

- Database will be inaccessible.
- If the database belonged to a model that was deleted, then the severity of the problem is very low. In this case, there is no impact. You can ignore this error.

What You Should Do

- If the database is inaccessible, contact Intergraph Process, Power & Marine Support.

Detected unassociated Location object

Message

Detected unassociated Location object.

Severity

Fatal.

Detailed Description

Location information is not associated to the project collection object.

Possible Cause

The cause is currently unknown.

Possible Impacts

Location information will be inaccessible. This Location cannot be used as part of a global workshare configuration setup.

What You Should Do

Contact Intergraph Process, Power & Marine Support.

Folder is not associated to the parent Folder

Message

Folder is not associated to the parent Folder.

Severity

Fatal, High.

Detailed Description

This error is reported when there is no relation between Folder and Folder Child or Folder and Folder parent.

Possible Cause

This situation can happen when there are unexpected errors when creating a folder hierarchy. In all other circumstances, the cause is unknown.

Possible Impacts

- The hierarchy of folders and permission groups in the Model and Catalog databases might be inaccessible, and hence cannot be seen in the Project Management task.
- The Model and Catalog databases will be inaccessible if the parent folder is missing.

What You Should Do

1. Open the Project Management task.
2. Check the folder hierarchy under each model and catalog.
3. If you see no problem in navigating the folder hierarchy in the Project Management task, then there is no need for alarm. Please send us the detailed error information for further analysis.
4. If some information is missing and the database has integrity problems, contact Intergraph Process, Power & Marine Support.

Invalid relationship between the Workspace Explorer root and the plant in the site database

Message

Invalid relationship between the Workspace Explorer root and the plant in the site database.

Severity

Fatal.

Detailed Description

The **Workspace Explorer** root is not connected to the model in the Site database.

Possible Cause

The cause is currently unknown.

Possible Impacts

Batch processing of drawings will fail. The **Define Workspace** command will also fail.

What You Should Do

Run the "SP3DPRJMGTRRepairCmd.FixCnfgProjectRoot" custom command on the Model database to fix the problem.

Model database has more than one site occurrence for catalog

Message

Model database has more than one site occurrence for catalog.

Severity

Crucial.

Detailed Description

There are currently two different attachments to a catalog in the model database. A model database can only be attached to one catalog.

Possible Cause

A temporary memory corruption on a client workstation might create the situation on an older version of the software. The current version of the software does stricter error checking to avoid that type of corruption.

Possible Impacts

Some objects might not be synchronized or copied properly. Some catalog specifications might not be retrieved properly.

What You Should Do

Run the **Clean Database** custom command.

Model has multiple ProxyOwners (site) for projectdb

Message

Model has multiple ProxyOwners (site) for projectdb.

Severity

Fatal.

Detailed Description

This error is reported when the Model database has more than one Proxy Owner for the Site database.

Possible Cause

The cause is unknown.

Possible Impacts

This situation will cause various problems when you define the workspace or create filters.

What You Should Do

Contact Intergraph Process, Power & Marine Support.

Multiple ConfigProjectRoot objects exists in the model

Message

Multiple ConfigProjectRoot objects exist in the model.

Severity

Fatal.

Detailed Description

This error is reported when the Model database has more than one Config Project Root object.

Possible Cause

The cause is unknown.

Possible Impacts

This situation will cause various problems when you define the workspace or create filters.

What You Should Do

Contact Intergraph Process, Power & Marine Support.

Permission Group contains duplicate Access Control Rules

Message

Permission Group contains duplicate Access Control Rules.

Severity

Fatal.

Detailed Description

This error is reported when multiple Access Control Rules with identical role names are associated to a Permission Group.

Possible Cause

The cause is unknown.

Possible Impacts

- The **Edit > Permissions** command does not work.

What You Should Do

1. Run the **Check Database Integrity** custom command.
2. Run the **Clean Database** custom command to delete the objects.

Permission Group has multiple relations with Folder Parent

Message

Permission Group has multiple relations with Folder Parent.

Severity

Crucial.

Detailed Description

This error is reported either when a permission group is related to more than one folder parent or when a permission group is related to one folder parent more than one time.

Possible Cause

This situation can happen due to unexpected errors when permission groups are moved from one folder parent to another folder parent. In all other circumstances, the cause is unknown.

Possible Impacts

- Trying to modify any object in the model gives errors.
- If you select the problematic permission group in the project environment, the software displays an application error.

What You Should Do

1. Run the **Check Database Integrity** custom command.
2. Run the **Clean Database** custom command to delete the extra relations between the permission group and the folder parent.

Permission Group is not associated to a Folder

Message

Permission Group is not associated to a Folder.

Severity

High.

Detailed Description

Permission Group is orphaned.

Possible Cause

The cause is currently unknown.

Possible Impacts

- The corresponding permission group will be inaccessible. You will not be able to define access control for such permission groups. However, these permission groups will be visible in the dropdown box that lists all the permission groups in the modeling tasks. Care should be taken to not use these permission groups while modeling objects in any task.

What You Should Do

Contact Intergraph Process, Power & Marine Support.

Permission Group is not associated to a Location

Message

Permission Group is not associated to a Location.

Severity

High.

Detailed Description

Permission Group is not associated to a Location object.

Possible Cause

The cause is currently unknown.

Possible Impacts

- The permission group might be visible and editable in the Project Management task, but may not appear in the dropdown box that lists all the available permission groups in the modeling tasks. If the model under which this permission group resides is replicated as part of a global workshare configuration, then the replicated setup may not work properly.

What You Should Do

- If the model under which this permission group resides is not part of a global workshare configuration, then the following solution may work: If the permission group is visible in the Project Management task, select it in the Tree view and bring up its **Properties** dialog box. Using the dropdown box that lists all the available Locations, re-assign this permission group to a valid Location.
- If that does not fix the problem, or if the model has been replicated, contact Intergraph Process, Power & Marine Support.

Plant is not associated to Plants root

Message

Plant is not associated to Plants root.

Severity

High.

Detailed Description

This error is reported when there is no relation between Project Root (Plant) and Project Collection (Plant Root) object.

Possible Cause

The error can happen when there are unexpected errors when creating a model. In all other circumstances, the cause is unknown.

Possible Impacts

- If the Project Root object does not have a relation with the project collection object, then the model will not be visible in the Project Management task. The corresponding model will be inaccessible.

What You Should Do

1. Open the Project Management task.
2. Check for missing models.
3. If you see no problem with the model information in the Project Management task, then there is no need for alarm. Please send us the detailed error information for further analysis.
4. If some information is missing and the database has integrity problems, contact Intergraph Process, Power & Marine Support.

The database contains more than one occurrence of the Reference Root class

Message

The database contains more than one occurrence of the Reference Root class.

Severity

High

Detailed Description

More than one occurrence of the reference root exists in the model database. An occurrence of the reference root class exists at the top of a single 3D reference hierarchy and having more than one in a model database is a critical corruption of the database.

Possible Cause

This is an unexpected error with no known cause.

Possible Impacts

The hierarchy of 3D References will not be displayed correctly in the references tab of the Workspace Explorer.

What You Should Do

A repair command is provided to correct this problem.

1. Open the model.
2. Click **Tools > Custom Commands**.
3. Run the **Clean Database** custom command
4. On the **Clean Database** dialog box, select the object displayed with the message identified above.
5. Click **Clean Now**.
This operation removes all but one of the reference root class occurrences, after moving all the related children object into the hierarchy under the single remaining reference root occurrence.
6. Close the **Clean Database** dialog box.
7. **Save** and **Exit** the session.

SECTION 21

Reference Data

This section contains Reference Data database integrity messages.

Object does not have the requested relation

Message

Object does not have the requested relation.

Severity

The severity of the error depends on the type of object for which this error has occurred. Please see the section **Detailed Description** for the level of severity for each type of object.

Detailed Description

This error is reported under the following circumstances:

1. For all *Outfitting Cross-sections* that are not related to an outfitting cross- section definition: Severity - High
2. For all orphaned pipe ports in the database that are not associated with any parts: Severity - Low
3. For all *Name Rule Holder* objects that are not associated with a *class node* object: Severity - High
4. For all *Insulation Thickness rule* objects that are not related to an *Insulation spec*: Severity - Low.
5. For all *Allowable Insulation Thickness* objects that are not related to an *Insulation material*: Severity - Low.

Possible Cause

This situation can happen when there are unexpected errors when editing the data using the Bulkload utility. Under normal circumstances, modification of data using the Bulkload utility will, if necessary, automatically propagate changes to objects that are related to the data. If there is an unexpected error while modifying the data, it can result in some associated objects getting left behind as orphans in the database.

Possible Impacts

- Error with *Outfitting Cross-Section*: This error will impact you when you use the HVAC and Electrical modeling tasks. If this relation is missing, then the software cannot get to these outfitting cross-section objects. Because the Reference data APIs will not be able to get to


these objects, you cannot place ducts in these sizes. These objects will not be visible in the Catalog task, either.

- Error with orphaned pipe ports: These are just orphaned entries in the database. No Impact.
- Error with *Name Rule Holder* objects: This error will impact you when you are modeling objects. In order to get the Name rule that is associated with the type of object that they are modeling, the association between the class node and the Name Rule Holder is necessary. If this relation is missing, then the software cannot use the Name Rule to generate a new name for the object that is being modeled.
- Error with *Insulation Thickness Rule* and *Allowable Insulation Thickness* objects: This error means that the software will not be able to access the insulation data, even though the data actually resides in the database. This error will impact you when you attempt to assign an insulation thickness to the objects that were placed in the model.

What You Should Do

Error with *Outfitting Cross-Section*: The problem can be addressed by using the Bulkload utility to delete the outfitting cross-sections and re-create them. Because the outfitting cross-section objects are referenced by other objects like HVAC specs, cableway specs, and parts that contain HVAC nozzles, you must update these references when the outfitting cross-section objects are deleted and re-created.

1. Open the Excel workbook that contains the **OutfittingCrossSections** sheet, which contains the data for the outfitting cross-section objects.
2. Create a workbook containing only this sheet.
3. Start the Bulkload utility.
4. In the **Excel Files** box, specify the newly created workbook.
5. Specify the server, database, schema, and other details on the dialog box.
6. For the bulkload mode, select **Delete and replace records in existing catalog**.
7. Click **Load**. Bulkload will then delete and re-create all the outfitting cross-sections in the database.

 **NOTE** The outfitting cross-section objects could be referenced by other workbooks. For example, HvacSpec, CablewaySpec and all parts that have HVAC nozzles can contain a reference to data from the **OutfittingCrossSections** sheet.

8. Locate the **HvacSpec** sheet, and type **M** in the first column of all the rows on this sheet.
9. Next, search through all the part class sheets and locate the parts that have HVAC nozzles. Type **M** in the first column of all these parts. Parts that contain HVAC nozzles with references to outfitting cross-section objects can be located by searching for the string "):CrossSection" in the **Head** row.
10. Start the Bulkload utility.
11. Select all the workbooks that were modified.
12. Specify the server, database, log file, and other details on the dialog box.
13. For the bulkload mode, select **Add, modify, or delete records in existing catalog**.
14. Click **Load**. Bulkload will update the objects that have references to the outfitting cross-sections that were created.

15. Locate all the workbooks that contain the **CableWaySpec** sheet and type **D** in the first column of all the rows on the sheet.
16. Start the Bulkload utility.
17. Select all the workbooks that were modified.
18. Specify the server, database, log file, and other details on the dialog box.
19. For the bulkload mode, select **Add, modify, or delete records in existing catalog**.
20. Click **Load**. Bulkload will delete all the cableway spec objects and the relations that they might have with other outfitting cross-section objects. This step is necessary because it is not possible to directly delete the relation between the cableway spec and the outfitting cross-section objects.
21. Locate all the workbooks that contain the **CableWaySpec**, **CableWayNominalSizes**, and **CableWayBendRadius** sheets. Type **A** in the first column of all the rows on the sheets.
22. Start the Bulkload utility.
23. Select all the workbooks that were modified.
24. Specify the server, database, log file, and other details on the dialog box.
25. For the bulkload mode, select **Add, modify, or delete records in existing catalog**.
26. Click **Load**. Bulkload will create the objects and also update the references to the outfitting cross-sections that were created.

Error with *Name Rule Holder* objects: The problem can be addressed by using the Bulkload utility to re-create the Name Rule Holder objects.

1. Open the Excel workbook that contains the **NamingRules** sheet, which contains the data for the Name Rules. In the set of data that is delivered with the software, this data can be found in the **GenericNamingRules.xls** workbook.
2. On this sheet, type **A** in the first column of all the rows.
3. Start the Bulkload utility.
4. In the **Excel Files** box, specify the workbook that was modified.
5. Specify the server, database, schema, and other details on the dialog box.
6. For the bulkload mode, select **Add, modify, or delete records in existing catalog**.
7. Click **Load**. Bulkload will attempt to re-create all the entries on the sheet.

Error with *Insulation Thickness Rule* objects: The problem can be addressed by using the Bulkload utility to re-create the data.

1. Open the Excel workbook that contains the **InsulationThicknessTable** sheet, which contains the data for the Insulation Thickness Rule. In the set of data that is delivered with the software, this data can be found in the **InsulationData.xls** workbook.
2. On the sheet, type **D** in the first column of all the rows that define the thickness values. Be sure to leave out the rows that define a spec name.
3. Start the Bulkload utility.
4. In the **Excel Files** box, specify the workbook that was modified.
5. Specify the server, database, schema, and other details on the dialog box.

6. For the bulkload mode, select **Add, modify, or delete records in existing catalog**.
7. Click **Load**. Bulkload will delete all the thickness objects from the database.
8. Re-open the Excel sheet that was modified.
9. This time, replace the **D** in the first column with **A**.
10. Start the Bulkload utility.
11. In the **Excel Files** box, specify the workbook that was modified in the previous step.
12. Specify the server, database, schema, and other details on the dialog box.
13. For the bulkload mode, select **Add, modify, or delete records in existing catalog**.
14. Click **Load**. Bulkload will re-create all the thickness objects in the database. This process will re-create the relations that were reported as missing by the database integrity scripts.

Error with *Allowable Insulation Thickness* objects: The problem can be addressed by using the Bulkload utility to re-create the data.

1. Open the Excel workbook that contains the **InsulationMaterial** sheet, which contains the data for the Allowable Insulation Thickness Rule. In the set of data that is delivered with the software, this data can be found in the **InsulationData.xls** workbook.
2. On this sheet, type **D** in the first column of all the rows that define the thickness values. Be sure to leave out the rows that define a material type and density.
3. Start the Bulkload utility.
4. In the Excel Files box, specify the workbook that was modified.
5. Specify the server, database, schema, and other details on the dialog box.
6. For the bulkload mode, select **Add, modify, or delete records in existing catalog**.
7. Click **Load**. Bulkload will delete all the thickness objects from the database.
8. Re-open the Excel sheet that was modified.
9. This time, replace the **D** in the first column with **A**.
10. Start the Bulkload utility.
11. In the **Excel Files** box, specify the workbook that was modified in the previous step.
12. Specify the server, database, schema, and other details on the dialog box.
13. For the bulkload mode, select **Add, modify, or delete records in existing catalog**.
14. Click **Load**. Bulkload will re-create all the thickness objects in the database. This process will re-create the relations that were reported as missing by the database integrity scripts.

Object does not have the requested simple relation

Message

Object does not have the requested simple relation.

Severity

The severity of the error depends on the type of object for which this error has occurred. Please see the **Detailed Description** section for the level of severity for each type of object.

Detailed Description

This error is reported under the following circumstances:

1. For all *Catalog Roots* that do not have a parent: Severity - Low
2. For all *Piping commodity filters* that are not related to any piping materials class: Severity - Low
3. For all parts that are not related to any part class: Severity - Low
4. For all orphaned *SymbolDefHelper* objects that are not associated with any Parts, cross sections, or *StructFeatureOrJoint* objects: Severity - Low.
5. For all *HVAC Permissible Thickness* Objects that are not associated with an HVAC material: Severity - Low

Possible Cause

This situation can happen when there are unexpected errors when editing the data using the Bulkload utility. Under normal circumstances, modification of data using the Bulkload utility will, if necessary, automatically propagate changes to objects that are related to the data. If there is an unexpected error while modifying the data, it can result in some associated objects getting left behind as orphans in the database.

Possible Impacts

- Error with *Catalog Roots*: If the Catalog Root object does not have a parent object, then the object and its children will not be visible in the Catalog task.
- Error with *Piping commodity filters* objects: This error will impact you when you go into the Piping task. Depending on the piping commodity filter data with which the relation is missing, three types of errors can result - (a) Routing of pipe can fail for one or more sizes, (b) Automatic insertion of components, for instance, elbows, can fail in some scenarios, (c) When inserting components, some of the short codes might not appear in the dropdown box.
- Error with orphaned parts: These orphaned entries will not be visible in the Catalog task - as a result, you cannot select the part from the Catalog browser. If the orphaned part is an Equipment part, then these parts cannot be placed as Equipment. If the orphaned part is a pipe part, then these parts will not be available for selection from the Catalog browser when the piping designer wants to override the part supplied by the spec with a part that is selected from the Catalog browser.
- Error with orphaned *SymbolDefHelpers*: No Impact.

- Error with *HVAC Permissible Thickness* Objects: If the relation is missing, then the software cannot access these thickness objects. Because the Reference data APIs will not be able to get to these objects, you cannot specify route ducts in these thicknesses. These objects will not be visible in the Catalog task, either.

What You Should Do

Error with *Catalog Roots*: The problem can be addressed by using the Bulkload utility to associate the Catalog root to a parent. In most cases, the parent of a Catalog root object is the Catalog root object named **CatalogRoot**.

1. Open the Excel workbook that contains the data about Catalog root objects.
2. Carefully look through the **CatalogRoot** and **R-Hierarchy** sheets to identify the Catalog root object that does not have a parent.
3. After identifying the Catalog root object that does not have a parent, add an entry on the **R-Hierarchy** sheet specifying both the object name as well as its parent name.
4. Type **A** in the first column of the row that was just added.
5. Start the Bulkload utility.
6. In the **Excel Files** box, specify the workbook that was modified in the previous step.
7. Specify the server, database, schema, and other details on the dialog box.
8. For the bulkload mode, select **Add, modify, or delete records in existing catalog**.
9. Click **Load**. Bulkload will add a relation between the Catalog root object and the parent that was identified in the previous step.

Error with *Piping commodity filters* objects: The problem can be addressed by using the Bulkload utility to re-create the piping commodity filter objects.

1. Open the Excel workbook that contains the **PipingCommodityFilter** sheet, which contains the data for the piping commodity filter objects.
2. Create a workbook containing only this sheet.
3. Start the Bulkload utility.
4. In the **Excel Files** box, specify the new workbook that was created in step 1.
5. Specify the server, database, schema, and other details on the dialog box.
6. For the bulkload mode, select **Delete and replace records in existing catalog**.
7. Click **Load**. Bulkload will then delete and re-create all the piping commodity filter objects in the database.

Error with *HVAC Permissible Thickness* objects: The problem can be addressed by using the Bulkload utility to re-create the HVAC Permissible Thickness objects.

1. Open the Excel workbook that contains the **PermissibleDuctThickness** sheet, which contains the data for the HVAC Permissible Thickness objects.
2. Create a workbook containing only this sheet.
3. Start the Bulkload utility.
4. In the **Excel Files** box, specify the new workbook that was created in step 1.
5. Specify the server, database, schema, and other details on the dialog box.

6. For the bulkload mode, select **Delete and replace records in existing catalog**.
7. Click **Load**. Bulkload will then delete and re-create all the HVAC Permissible Thickness objects in the database.

Object has an unexpected relation

Message

Object has an unexpected relation.

Severity

The severity of the error depends on the type of object for which this error has occurred. Please see the **Detailed Description** section for the level of severity for each type of object.

Detailed Description

This error is reported under the following circumstances:

A: A *Catalog Root* object that has a relation with Class Node: Severity - Crucial

B: For *pipe parts* that have a relation to more than one commodity piping material control data object: Severity - Crucial

Possible Cause

A: This error is reported when one of the hierarchical nodes (objects from **ClassNodeType** sheet) is related directly to the Catalog Root (top node in the Catalog task, which is represented by the name of the catalog), instead of its respective hierarchy Root node.

B: This error is reported when the Catalog database contains pipe parts that have a relation to more than one commodity piping material control data object. This situation can happen when the material control data-pipe component semantic (which is triggered when the part is created) encounters an unexpected error. Incorrect data on the **PipingCommodityMatlControlData** sheet will lead to such an error. An example is when multiple entries on the **PipingCommodityMatlControlData** sheet have identical contractor commodity codes, but overlapping first size and/or second size ranges.

Possible Impacts

A: Error with *Catalog Root*: If the Catalog Root object has a relation with any of the hierarchy nodes (class nodes), then sometimes nothing will come up under the top root node in the Catalog task.

B: Error with *pipe parts*: This error will impact you when you go into the Piping task. One or more of the reference data APIs will return an error code when encountering a piping part that is related to more than one piping commodity material control data object.

What You Should Do

A: Error with *Catalog Root*: The problem can be corrected by using the Bulkload utility to remove the unexpected relation with the Catalog Root. Open the Excel workbook and go to the **R-Hierarchy** sheet. Locate the incorrect relation made on this sheet with the Catalog Root. Type **D** in the first column and bulk load using the Add/Modify/Delete mode.

B: Error with *pipe parts*: The problem can be addressed by using the Bulkload utility to delete and re-create the piping commodity material control data.

1. Open the Excel workbook that contains the **PipingCommodityMatlControlData** sheet. Carefully review and correct the data to make sure that there are no entries with overlapping size ranges for a given contractor commodity code.
2. Create a new workbook with only this sheet.
3. Start the Bulkload utility.
4. In the **Excel Files** box, specify the workbook that you edited in Step 1.
5. Specify the server, database, schema, and other details on the dialog box.
6. For the bulkload mode, select **Delete and replace records in existing catalog**.
7. Click **Load**. Bulkload will delete and re-create all the piping commodity material control data objects.

SECTION 22

Route Cable

This section contains Route Cable database integrity messages.

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Cable feature not associated with cable leg

Message

Cable feature not associated with cable leg.

Severity

Crucial.

Detailed Description

All cable features should be associated with a leg. This feature is not associated with any leg.

Possible Cause

Unknown.

Possible Impacts

You may not be able to modify the cable path.

What You Should Do

Use the **Clean Database** custom command to delete this particular object in error.

Cable feature not associated with cable run

Message

Cable feature not associated with cable run.

Severity

Crucial.

Detailed Description

All cable features must be associated to their parent run objects. If the features are not associated to the run, then they will not be brought into the workspace by normal means. However, you always have the ability to bring them into the workspace using the Object Type property.

Possible Cause

In earlier versions (prior to Version 3.0), selecting a feature and changing the run could result in this error, especially when the run to which the feature is being moved is a read-only run. However, this problem has been identified in the route code and has been fixed. This error should not occur in Version 4.1 or beyond.

Possible Impacts

You are not able to modify the feature (assuming you had brought the feature into the workspace using Object Type filters).

What You Should Do

Use the **Clean Database** custom command to delete this particular object in error.

Cable has no cable part in the catalog

Message

Cable has no cable part in the catalog.

Severity

Crucial.

Detailed Description

Cable should always be associated to the catalog part.

Possible Cause

Catalog part may not be available.

Possible Impacts

You may not be able to view the cable.

What You Should Do

The object in error may have to be deleted.

Cable is not connected to any equipment

Message

Cable is not connected to any equipment.

Severity

Crucial.

Detailed Description

A cable run has been found in the database with no relationships to equipment. In its nominal state, a cable is expected to connect two pieces of equipment.

Possible Cause

Most likely, this situation was caused as a result of the deletion of one or both of the pieces of equipment to which the cable was related. Check your cable schedule to determine what equipment the cable is supposed to connect, and verify that both pieces of equipment still exist in the Model database. If they do, the cable can be re-connected to them. If not, either the equipment must be re-created and the cable re-connected, or the cable should be deleted.

This error should be accompanied by an entry on the To Do List.

Possible Impacts

The reported length of this cable cannot be assumed to be accurate because it does not account for the length required to attach to equipment. Also, reports on the cable will not properly list its equipment connections.

What You Should Do

Below are the steps necessary to correct this problem.

1. Open the model.
2. Switch to the Electrical task.
3. Click **View > To Do List**.
4. Find the suspect cable on the To Do list.
5. Traverse to the item and re-associate it to its equipment using the **Properties** dialog box.

6. If the equipment no longer exists, it should be re-created or the cable should be deleted.

Cable Leg not associated with Cable Feature

Message

Cable Leg not associated with Cable Feature.

Severity

Normal.

Detailed Description

A Cable Leg should always have Features.

Possible Cause

Unknown.

Possible Impacts

No impact. A Route leg is not a first class Business Object, so this error will not affect anything.

What You Should Do

Run the **Clean Database** custom command to delete the legs.

Cable occurrence not associated with cable feature

Message

Cable occurrence not associated with cable feature.

Severity

Crucial.

Detailed Description

A Cable part has lost its relationship to its Feature.

Possible Cause

Unknown.

Possible Impacts

The Drawings and Reports task and filters will not have the right information.

What You Should Do

The particular object in error may have to be deleted.

Cable occurrence not associated with cable run

Message

Cable occurrence not associated with cable run.

Severity

High.

Detailed Description

A cable part has lost its relationship to its run.

Possible Cause

Unknown.

Possible Impacts

The Drawings and Reports task and filters will not have the right information.

What You Should Do

The particular object in error may have to be deleted.

Cable Occurrences which do not have updated cable length values

Message

Cable Occurrences which do not have updated cable length values.

Severity

Crucial

Detailed Description

The cable occurrences are not updated with appropriate cable tail length values.

Possible Cause

When there are inconsistencies in cable data, the model might have incorrect cable tail length values, which can affect overall cable length calculations.

Possible Impacts

The cable reports might contain incorrect cable length values.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command.
3. Select the target objects, and then click **Clean Now**.

Cable run not associated with any cable feature

Message

Cable run not associated with any cable feature.

Severity

Fatal.

Detailed Description

A cable run has been found in the model that has no cable path features related to it. In other words, the cable run has no design children. It has no end features with which to connect to equipment and no segment features that can be associated with a cableway or conduit run, nor does it have any path legs associated with it that can be used to connect the segments or the two pieces of equipment.

At a minimum, a cable run should have three features associated with it: two end features and one path leg. As the cable is routed, more features will be added. At no time should a cable run have no features associated with it.

Note that the type of features identified as missing is not identifiable in the graphical tasks (even when they do exist). These objects are utilized internally to create and manage the path of a cable run.

Possible Cause

This situation is highly unusual. It most likely occurs due to some interruption of the algorithm during a commit when the child relationships are not written to the Model database.

Possible Impacts

This cable run cannot be routed nor does it know what equipment it is connecting. It cannot be cleaned. It must be destroyed and re-created.

What You Should Do

Below are the steps necessary to correct this problem.

1. Open the model.
2. Select the cable.
3. Delete the cable.

Cable run not associated with cable occurrence

Message

Cable run not associated with cable occurrence.

Severity

Crucial.

Detailed Description

A cable run has been found in the Model database without an associated part in the Catalog.

Possible Cause

Most likely, the part was deleted from the Catalog database, or some error occurred while accessing the Catalog database during a commit operation.

Note that, unlike other routing applications, a cable run has one (and only one) catalog part associated to it.

Possible Impacts

The cable has no part information. It cannot report any part information either on the **Properties** dialog box or in MTO reports. Further, the software has no mechanism for reporting the weight and CG of the cable, so this information will not be included in weight and CG reports.

Consult your cable schedule to determine the part number that should be utilized with this cable. Verify that the part number exists in the Catalog being used by this Model database and, if it does, modify the cable such that it points to the given part number. If the part number does not exist in the Catalog database, it should be added to it.

What You Should Do

Below are the steps necessary to correct this problem.

1. Start the software.
2. Switch to the Catalog task.
3. Determine if the required part exists under the Cable branch.
4. If the part does not exist, it must be added to the Catalog database. Consult the *Reference Data Guide* documentation for further information on adding new parts to the Catalog.
5. Switch to the Electrical task.
6. Select the cable and, using the **Properties** dialog box, point to the correct part.
7. Select **OK** on the **Properties** dialog box to save the change.

EntryExit not connected to leg

Message

EntryExit not connected to leg.

Severity

Fatal.

Detailed Description

EntryExit should always be connected to a leg.

Possible Cause

This situation might be due to a permission group problem.

Possible Impacts

Modification of the cable path may not be possible.

What You Should Do

The problem will be fixed as soon as the segment is re-computed. To trigger a re-computation, modify one of the adjacent features.

Leg without two terminus features

Message

Leg without two terminus features.

Severity

Fatal

Detailed Description

Every leg must have two terminus features. A leg with zero, one or more than two terminus features is reported as an error object with the above message. The following features are treated as terminus features:

- End
- Branch
- Turn
- AlongLeg_EndLeg
- AlongLeg_Division
- TurnTransistion
- SlantedTransistion

Possible Cause

This error is a result of the following:

- Bad scripts running on the model database, which disturb the relation keys
- Unexpected failures while creating or modifying the objects

Possible Impacts

Cannot work with the leg and other legs connected to it.

What You Should Do

- If the leg has one or zero terminus feature, run the **Clean Database** custom command to insert the required features.
- If the leg has more than two terminus features, running **Clean Database** command cannot solve this problem. You must delete the features either manually from GUI, or through a query and delete operation on the database.

Marker not connected to feature

Message

Marker not connected to feature.

Severity

Crucial.

Detailed Description

A marker should always be connected to a leg.

Possible Cause

This situation might have occurred because of permission boundaries.

Possible Impacts

The Drawings and Reports task will not have the right information.

What You Should Do

Run the **Clean Database** custom command to delete the marker.

Marker Not connected to leg

Message

Marker Not connected to leg.

Severity

Crucial.

Detailed Description

A marker should always be connected to a leg.

Possible Cause

This situation might have occurred because of permission boundaries.

Possible Impacts

The Drawings and Reports task will not have the right information.

What You Should Do

Run the **Clean Database** custom command to delete the marker.

Segment not associated to any boundary

Message

Segment not associated to any boundary.

Severity

Crucial.

Detailed Description

A cable segment should always be associated with some boundary.

Possible Cause

This situation might be due to a permission group problem.

Possible Impacts

Modification of the cable path may not be possible.

What You Should Do

The problem will be fixed as soon as the segment is re-computed. To trigger a re-computation, modify one of the adjacent features.

Segment not connected to any cableway Feature

Message

Segment not connected to any cableway Feature.

Severity

Fatal.

Detailed Description

A cable segment should always be associated with some feature.

Possible Cause

This situation might be due to a permission group problem.

Possible Impacts

Modification of the cable path may not be possible.

What You Should Do

The problem will be fixed as soon as the segment is re-computed. To trigger a re-computation, modify one of the adjacent features.

Segment not connected to any leg

Message

Segment not connected to any leg.

Severity

Fatal.

Detailed Description

A cable segment should always be associated with a leg.

Possible Cause

This situation might be due to a permission group problem.

Possible Impacts

Modification of the cable path may not be possible.

What You Should Do

The problem will be fixed as soon as the segment is re-computed. To trigger a re-computation, modify one of the adjacent features.

SECTION 23

Ship Drawings and Reports

This section contains Ship Drawings and Reports database integrity messages.

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AE (Arrangement)/Broker that has the Querystring of elements in Model exists without a ShipDwgView

Message

AE (Arrangement)/Broker that has the Querystring of elements in Model exists without a ShipDwgView.

Severity

Fatal.

Detailed Description

A detailed description of the problem is not currently available.

Possible Cause

The cause of this problem is unknown.

Possible Impacts

The functionality of Ship Drawings will be impaired.

What You Should Do

Report the problem to the system administrator.

AE (Hulllines)/Broker that has the Querystring of elements in Model exists without a ShipDwgView

Message

AE (Hulllines)/Broker that has the Querystring of elements in Model exists without a ShipDwgView.

Severity

Fatal.

Detailed Description

A detailed description of the problem is not currently available.

Possible Cause

The cause of this problem is unknown.

Possible Impacts

The functionality of Ship Drawings will be impaired.

What You Should Do

Report the problem to the system administrator.

AE (scantling by volume)/Broker that has the Querystring of elements in Model exists without a ShipDwgView

Message

AE (scantling by volume)/Broker that has the Querystring of elements in Model exists without a ShipDwgView.

Severity

Fatal.

Detailed Description

A detailed description of the problem is not currently available.

Possible Cause

The cause of this problem is unknown.

Possible Impacts

The functionality of Ship Drawings will be impaired.

What You Should Do

Re-create the drawing view.

AE (ShellExpansion)/Broker that has the Querystring of elements in Model exists without a ShipDwgView

Message

AE (ShellExpansion)/Broker that has the Querystring of elements in Model exists without a ShipDwgView.

Severity

Fatal.

Detailed Description

A detailed description of the problem is not currently available.

Possible Cause

The cause of this problem is unknown.

Possible Impacts

The functionality of Ship Drawings will be impaired.

What You Should Do

Report the problem to the system administrator.

dbo.SHIPDWGShellExpSystem table is not created

Message

dbo.SHIPDWGShellExpSystem table is not created.

Severity

Fatal.

Detailed Description

New tables were added to handle the shell expansion system. Specifically, the SHIPDWGShellExpSystem table was added. The migration of a V5 database to V6 added these tables to the database.

Possible Cause

Version migration did not get accomplished properly.

Possible Impacts

You cannot create a Shell Expansion system (mesh).

What You Should Do

Perform the V5 to V6 migration procedure. In the event that the entire version migration is not necessary, the script that creates the table can be run individually.

1. Run Query Analyzer.
2. Load the SQL script
(ShipDrawings\Server\Schema\SQL\VersionMigration\V5toV6\ODShellExpSystem.sql),
and execute it.

dbo.SHIPDWGXMLStorage table is not created

Message

dbo.SHIPDWGXMLStorage table is not created.

Severity

Fatal.

Detailed Description

New tables were added to handle generic storage. Specifically, the SHIPDWGXMLStorage table was added. The migration of a V5 database to V6 added these tables to the database.

Possible Cause

Version migration did not get accomplished properly.

Possible Impacts

You cannot create any drawings using the "Drawings by Ruleset" workflow.

What You Should Do

Perform the V5 to V6 migration procedure. In the event that the entire version migration is not necessary, the script that creates the table can be run individually.

1. Run Query Analyzer.
2. Load the SQL script (ShipDrawings\Server\Schema\SQL\VersionMigration\V5toV6\ODBGenericStorage.sql), and execute it.

DrawingViewGenerator exists without a Dwg View

Message

DrawingViewGenerator exists without a Dwg View.

Severity

Fatal.

Detailed Description

A detailed description of the problem is not currently available.

Possible Cause

The cause of this problem is unknown.

Possible Impacts

The functionality of Ship Drawings will be impaired.

What You Should Do

Report the problem to the system administrator.

Missing Column 'dTimeLastGenerated' in table dbo.SHIPDWGShellExpSy

Message

Missing Column 'dTimeLastGenerated' in table dbo.SHIPDWGShellExpSy.

Severity

Fatal.

Detailed Description

In order to support shell expansion drawings, a new persistent property is added. A migration script is necessary to handle this change for existing Model databases. The migration script adds a new column called "dTimeLastGenerated" and sets its value to "dTimeLastGenerated." Also, this script modifies the GET and SET stored procedures.

Possible Cause

Database changes have occurred, and the migration to a higher version was not done or else failed.

Possible Impacts

Shell expansion drawings in Ship Drawings will not appear correctly.

What You Should Do

1. Run the Query Analyzer.
2. Execute the following script:
ShipDrawings\Server\Schema\SQL\VersionMigration\V6toV6.1\ODBShellExpSystem.sql.

Missing Column 'dVolumeThicknessNeg' in table dbo.SHIPDWGScantlingByVolumeAE

Message

Missing Column 'dVolumeThicknessNeg' in table dbo.SHIPDWGScantlingByVolumeAE.

Severity

Fatal.

Detailed Description

For Scantlings by Volume to support different thickness values, a new persistent property is added.

A migration script is necessary to handle this change for existing Model databases. The migration script adds a new column named "dVolumeThicknessNeg" and sets its value the same as "dVolumeThickness". Also, this script modifies the GET and SET stored procedures.

Possible Cause

Database changes have occurred, and the migration to a higher version was not done or else failed.

Possible Impacts

New functionality will be unavailable. Attempts to use the Scantlings by Volume functionality will fail.

What You Should Do

The migration procedure should be performed. However, the script that was to be executed during the migration may be executed directly as follows:

1. Run Query Analyzer.
2. Execute the script
(ShipDrawings\Server\Schema\SQL\VersionMigration\V6toV6.1\ODBScantlingByVolume.sql).

ShellExpansionAE exists without Hull Plate input

Message

ShellExpansionAE exists without Hull Plate input.

Severity

Fatal.

Detailed Description

A detailed description of the problem is not currently available.

Possible Cause

The cause of this problem is unknown.

Possible Impacts

The functionality of Ship Drawings will be impaired.

What You Should Do

Delete the Mesh (Shell Expansion), and re-create it for the Hull Plate.

ShellExpansionAE exists without BaseCurve Input

Message

ShellExpansionAE exists without BaseCurve Input.

Severity

Fatal.

Detailed Description

A detailed description of the problem is not currently available.

Possible Cause

The cause of this problem is unknown.

Possible Impacts

You will be unable to create a Shell Expansion Mesh for the Plate.

What You Should Do

Delete the Mesh (Shell Expansion), and re-create it for the Hull Plate and the required Base Curve.

Shell expansion AE Exists without plate geometry

Message

Shell expansion AE Exists without plate geometry.

Severity

Fatal.

Detailed Description

A new relation with IJPlateGeometry is added to the Shell Expansion AE, replacing the relation with IJPlate. The migration of a Version 6 database to Version 6.1 adds this relation in the place of the old relation.

Possible Cause

Version migration does not occur properly.

Possible Impacts

The functionality of shell expansion drawings in Ship Drawings will not work.

What You Should Do

Run the ShipDrawings V6.1 Middle Tier Migration Command (ISShellExpMigration.Migrate4Opening).

ShipDwg Table does not exist in Catalog

Message

ShipDwg Table does not exist in Catalog.

Severity

Fatal.

Detailed Description

The Catalog database does not contain the tables for the different active entities of the Ship Drawings task. You can use a DB Integrity script to check the Catalog database. When this script is run on the existing Catalog, if any of the tables does not exist, the software reports errors and associated information such as severity, action, and so forth. The script also provides a fix, an SQL file, to create the missing tables.

Possible Cause

The ShipCatalogDB_Level4.dat file delivered with the software does not contain the Ship Drawings tables.

Possible Impacts

During the migration process, errors might be generated while the Catalog is being upgraded.

What You Should Do

Run Query Analyzer, and then run the corresponding SQL script for any missing tables.

- If the missing table is dbo.SHIPDWGArrangementAE, the fix is ShipDrawings\Server\Schema\SQL\DataIntegrityScripts\CDBArrangementAEoleDB.sql.
- If the missing table is dbo.SHIPDWGXMLStorage, the fix is ShipDrawings\Server\Schema\SQL\DataIntegrityScripts\CDBGenericStorage.sql.

- If the missing table is `dbo.DRAWNGGSCADDwgGen`, the fix is `ShipDrawings\Server\Schema\SQL\DataIntegrityScripts\CDBGSCADDwgGen.sql`.
- If the missing table is `dbo.SHPDWGReportGenerator`, the fix is `ShipDrawings\Server\Schema\SQL\DataIntegrityScripts\CDBGSCADReportGenerator.sql`.
- If the missing table is `dbo.SHIPDWGHullLinesAE`, the fix is `ShipDrawings\Server\Schema\SQL\DataIntegrityScripts\CDBHullLinesAEOleDb.sql`.
- If the missing table is `dbo.SHIPDWGScantlingByVolumeAE`, the fix is `ShipDrawings\Server\Schema\SQL\DataIntegrityScripts\CDBScantlingByVolumeAE.sql`.
- If the missing table is `dbo.SHIPDWGShipDwgView`, the fix is `ShipDrawings\Server\Schema\SQL\DataIntegrityScripts\CDBShipDrawingView.sql`.
- If the missing table is `dbo.STRUCTShipDwgGenBroker`, the fix is `ShipDrawings\Server\Schema\SQL\DataIntegrityScripts\CDBShipDwg.sql`.
- If the missing table is `dbo.STRUCTStructDwgGenBroker`, the fix is `ShipDrawings\Server\Schema\SQL\DataIntegrityScripts\CDBStructDwg.sql`.
- If the missing table is `dbo.SHIPDWGShellExpSystem`, the fix is `ShipDrawings\Server\Schema\SQL\DataIntegrityScripts\CDBShellExpSystem.sql`.

ShipDwgView exists without a Dwg Sheet

Message

ShipDwgView exists without a Dwg Sheet.

Severity

Fatal.

Detailed Description

A detailed description of the problem is not currently available.

Possible Cause

The cause of this problem is unknown.

Possible Impacts

The functionality of Ship Drawings will be impaired.

What You Should Do

Report the problem to the system administrator.

ShipDwgView/MetaShipDwgView exists without a Dwg View

Message

ShipDwgView/MetaShipDwgView exists without a Dwg View.

Severity

Fatal.

Detailed Description

A detailed description of the problem is not currently available.

Possible Cause

The cause of this problem is unknown.

Possible Impacts

The functionality of Ship Drawings will be impaired.

What You Should Do

Re-create the drawing view in a different location.

TemplateSnapIn exists without a TemplateMgr

Message

TemplateSnapIn exists without a TemplateMgr.

Severity

Fatal.

Detailed Description

A detailed description of the problem is not currently available.

Possible Cause

The cause of this problem is unknown.

Possible Impacts

The functionality of Ship Drawings will be impaired.

What You Should Do

Report the problem to the system administrator.

The object should be in the ShipDrawings PermissionGroup

Message

The object should be in the ShipDrawings PermissionGroup.

Severity

High.

Detailed Description

There is a Permission Group for Ship Drawings objects. This object should be in the Ship Drawings Permission Group, but it is not.

Possible Cause

The object may have been created prior to the creation of the Ship Drawings Permission Group.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command.
3. Select the object in the list of objects.
4. Click **Clean Now** to place the object in the Ship Drawings Permission Group.

SECTION 24

Ship Reference Data

This section contains Ship Reference Data database integrity messages.

ConventionPlatePort missing relation with PlatePosition

Message

ConventionPlatePort missing relation with PlatePosition.

Severity

High.

Detailed Description

A MoldedConventionPlatePort object lost its relation with a MoldedConventionPlatePosition object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

First, delete the objects in error, and then re-create them.

1. Run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj).
2. On the dialog box, select the objects for repair, and then click **Clean Now**. This operation deletes all of the MoldedConventionPlatePort objects.
3. Open the Excel workbook that contains both the **MoldedFormSpec** and **MoldedConventions** sheets.
4. Create a new workbook that contains these two sheets only.
5. Start the Bulkload utility.
6. In the **Excel files** box, specify the newly created workbook.
7. In the **Excel codelist files** box, specify the **AllShipCodeLists.xls** workbook.

8. Under **Bulkload mode**, select **Append to existing catalog**.
9. Specify the Catalog database and schema information on the dialog box.
10. Click **Load**. Bulkload re-creates all of the MoldedConventionPlatePort objects.

ConventionPlatePosition Missing Relation with MoldedConventionSpec

Message

ConventionPlatePosition Missing Relation with MoldedConventionSpec.

Severity

High.

Detailed Description

A MoldedConventionPlatePosition object lost its relation with MoldedConventionSpec.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

First, delete the objects in error, and then re-create them.

1. Run the **Clean Database** custom command (ProglID: SP3DCleanDatabaseCmd.CCheckObj).
2. On the dialog box, select the objects for repair, and then click **Clean Now**. This operation deletes all of the MoldedConventionPlatePosition objects.
3. Open the Excel workbook that contains both the **MoldedFormSpec** and **MoldedConventions** sheets.
4. Create a new workbook that contains these two sheets only.
5. Start the Bulkload utility.
6. In the **Excel files** box, specify the newly created workbook.
7. In the **Excel codelist files** box, specify the **AllShipCodeLists.xls** workbook.
8. Under **Bulkload mode**, select **Append to existing catalog**.
9. Specify the Catalog database and schema information on the dialog box.
10. Click **Load**. Bulkload re-creates all of the MoldedConventionPlatePosition objects.

ConventionSpec missing Relation with MoldedFormSpec

Message

ConventionSpec missing Relation with MoldedFormSpec.

Severity

High.

Detailed Description

A MoldedConventionSpec object is missing its relation with a MoldedFormSpec object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

The software displays an error message when you try to change MoldedConventions (Thickness Direction, PlatePosition, Primary Orientation, Secondary Orientation, and so forth) of Plate Systems on their **Properties** dialog boxes.

What You Should Do

First, delete the objects in error, and then re-create them.

1. Run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj).
2. On the dialog box, select the objects for repair, and then click **Clean Now**. This operation deletes all of the MoldedConventionSpec objects.
3. Open the Excel workbook that contains both the **MoldedFormSpec** and **MoldedConventions** sheets.
4. Create a new workbook that contains these two sheets only.
5. Start the Bulkload utility.
6. In the **Excel files** box, specify the newly created workbook.
7. In the **Excel codelist files** box, specify the **AllShipCodeLists.xls** workbook.
8. Under **Bulkload mode**, select **Append to existing catalog**.
9. Specify the Catalog database and schema information on the dialog box.
10. Click **Load**. Bulkload re-creates all of the MoldedConventionSpec objects.

ProfileMoldedConvention missing relation with Plate port

Message

ProfileMoldedConvention missing relation with Plate port.

Severity

High.

Detailed Description

A ProfileMoldedConvention object lost its relation with a MoldedConventionPlatePort object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

First, delete the objects in error, and then re-create them.

1. Run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj).
2. On the dialog box, select the objects for repair, and then click **Clean Now**. This operation deletes all of the ProfileMoldedConvention objects.
3. Open the Excel workbook that contains both the **MoldedFormSpec** and **MoldedConventions** sheets.
4. Create a new workbook that contains these two sheets only.
5. Start the Bulkload utility.
6. In the **Excel files** box, specify the newly created workbook.
7. In the **Excel codelist files** box, specify the **AllShipCodeLists.xls** workbook.
8. Under **Bulkload mode**, select **Append to existing catalog**.
9. Specify the Catalog database and schema information on the dialog box.
10. Click **Load**. Bulkload re-creates all of the ProfileMoldedConvention objects.

SECTION 25

Structural Analysis

This section contains Structural Analysis database integrity messages.

Analysis Model has more than one boundary condition folder

Message

Analysis Model has more than one boundary condition folder.

Severity

Crucial.

Detailed Description

Analysis Model has more than one boundary condition folder.

Possible Cause

If two or more boundary condition folders exist under a single analysis model, the relationship between the boundary condition folder and its analysis model is not accessible. Failure to access this folder will not be detected when a new boundary condition is created, resulting in the creation of a second boundary condition folder.

Possible Impacts

During the operation of exporting the analysis model, the software may fail to detect that the boundary conditions under the additional folders are actually associated to the analysis model. The software will not export these boundary conditions.

What You Should Do

The only solution to resolve this situation is to remove your analysis model, which will remove all your boundary conditions. You can accomplish this task by completing the following procedure:

1. Copy your load combinations to the catalog.
2. Delete your analysis model.
3. Re-create your analysis model.
4. Paste from catalog your copied load combinations into your new analysis model load combination folder.
5. Re-define your boundary conditions.

Analysis Model has more than one load combination folder

Message

Analysis Model has more than one load combination folder.

Severity

Crucial.

Detailed Description

Analysis Model has more than one load combination folder.

Possible Cause

If two or more load combination folders exist under a single analysis model, the relationship between the load combination folder and its analysis model is not accessible. Failure to access this folder will not be detected when a new load combination is created, resulting in the creation of a second load combination folder.

Possible Impacts

During the operation of exporting the analysis model, the software may fail to detect that the load combinations under the additional folders are actually associated to the analysis model. The software will not export these load combinations to the analysis export file.

What You Should Do

The only solution to resolve this situation is to remove your analysis model, which unfortunately will remove all your boundary conditions. You can accomplish this task by completing the following procedure:

1. Copy your load combinations to the catalog.
2. Delete your analysis model.
3. Re-create your analysis model.
4. Paste from catalog your copied load combinations into your new analysis model load combination folder.
5. Re-define your boundary conditions.

Analysis Model has more than one member folder

Message

Analysis Model has more than one member folder.

Severity

Crucial.

Detailed Description

Analysis Model has more than one member folder.

Possible Cause

When the filter associated with the Analysis Model is applied, the members are associated to the analysis model's member folder. If the member folder relationship to the Analysis Model is inaccessible at the time the filter is applied, the software may 1) create another member folder under the Analysis Model and 2) associate the members to this new member folder instead of the existing one.

Possible Impacts

Exporting the analysis model to analysis will likely fail, and the output members to the analysis export file may contain the incorrect set of members.

What You Should Do

The only solution to resolve this situation is to remove your analysis model, which unfortunately will remove all your boundary conditions. You can accomplish this task by completing the following procedure:

1. Copy your load combinations to the catalog.
2. Delete your analysis model.
3. Re-create your analysis model.
4. Paste from catalog your copied load combinations into your new analysis model load combination folder.
5. Re-define your boundary conditions.

Analysis Model is missing its association to the model

Message

Analysis Model is missing its association to the model.

Severity

Fatal.

Detailed Description

Analysis Model is missing its association to the model.

Possible Cause

If an Analysis Model exists without its associated model, it is likely that the relationship for the Analysis Model was deleted and the Analysis Model was tagged as deleted, but you do not have access rights to remove the Analysis Model. The Analysis Model will be on the To Do List.

Possible Impacts

The Analysis Model is no longer valid and must be removed. It is likely that there are no visual clues that the Analysis Model exists because it will not appear on the **Analysis** tab of the **Workspace Explorer**.

What You Should Do

Run the **Clean Database** custom command. The Analysis Model will be tagged as **To Be Deleted** by this command. Allow the command to remove the Analysis Model and its contents from the database.

Analysis Model is missing its boundary condition folder

Message

Analysis Model is missing its boundary condition folder.

Severity

Normal.

Detailed Description

Analysis Model is missing its boundary condition folder.

Possible Cause

It is unknown how the boundary condition folder may have gotten removed because you have no direct means of deleting one of these folders without deleting the parent Analysis Model.

Possible Impacts

No impact. You are not required to have boundary conditions; therefore, no boundary condition folder implies that no boundary conditions were defined.

What You Should Do

Placing a boundary condition on a member of the Analysis Model will re-create the boundary condition folder.

Analysis Model is missing its load combination folder

Message

Analysis Model is missing its load combination folder.

Severity

Normal.

Detailed Description

Analysis Model is missing its load combination folder.

Possible Cause

It is unknown how the load combination folder may have gotten removed because you have no direct means of deleting one of these folders without deleting the parent Analysis Model.

Possible Impacts

No impact. You are not required to have load combinations; therefore, no load combination folder implies that no load combinations were defined.

What You Should Do

Create a load combination associated to the Analysis Model. The software will re-create a new load combination folder.

Analysis Model is missing its member folder

Message

Analysis Model is missing its member folder.

Severity

Normal.

Detailed Description

Analysis Model is missing its member folder.

Possible Cause

It is unknown how the member folder may have gotten removed because you have no direct means of deleting one of these folders without deleting the parent Analysis Model.

Possible Impacts

No impact. You are not required to have members associated to an Analysis Model; therefore, no member folder implies that no members are associated to this Analysis Model.

What You Should Do

Apply the Analysis Model filter to associate members to the Analysis Model. The software will re-create a new member folder.

Analysis WSE folder has no parent

Message

Analysis WSE (Workspace Explorer) folder has no parent.

Severity

Crucial.

Detailed Description

A boundary condition, load combination, or member folder does not have an associated Analysis Model. Or, a load case folder or unassigned members folder does not have an association to the model.

Possible Cause

It is not known what may have caused this situation. Normally, when an Analysis Model or plant or ship model is removed, the folders are removed too. The permissions on the parent Analysis Model or plant or ship model will match those of its associated folders; therefore, one cannot delete the parent of an analysis folder without deleting the folders themselves.

Possible Impacts

The folder and its contents are orphaned and will not be visible in any of the provided views. These folders have no parents; therefore, they cannot be loaded into the workspace and will not affect any of the analysis operations including export.

What You Should Do

Use the **Clean Database** custom command to remove this folder.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Using the **Clean Database** custom command, remove this folder.

Boundary condition is not associated to a member part

Message

Boundary condition is not associated to a member part.

Severity

Normal.

Detailed Description

Boundary conditions are normally related to the ends of member parts. However, this particular boundary condition has no such relation.

Possible Cause

It is likely that this boundary condition is on the To Do List. Its associated member part was removed, but the boundary condition could not be removed because the person removing the member part lacked permission to remove the boundary condition too.

Possible Impacts

Unknown.

What You Should Do

You can remove the boundary condition by using the **Clean Database** custom command, or by having someone with appropriate access rights remove the boundary condition interactively on the To Do List, which may be done as follows:

1. Define a workspace filter to return all boundary conditions by object type.
2. Refresh your workspace with this new filter.
3. On the To Do List, select the offending boundary condition, and delete it.

Duplicate naming rule assigned to a boundary condition

Message

Duplicate naming rule assigned to a boundary condition.

Severity

Crucial.

Detailed Description

The name of a boundary condition may be defined by you or generated by a naming rule. If a naming rule generates the name, only one naming rule can be assigned to the boundary condition.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

Run the **Clean Database** custom command. The naming rule will be tagged as **To Be Deleted** by this command. Allow the command to remove the naming rule from the database.

Duplicate naming rule assigned to a load

Message

Duplicate naming rule assigned to a load.

Severity

Crucial.

Detailed Description

The name of a load may be defined by you or generated by a naming rule. If a naming rule generates the name, only one naming rule can be assigned to the load.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

Run the **Clean Database** custom command. The naming rule will be tagged as **To Be Deleted** by this command. Allow the command to remove the naming rule from the database.

Duplicate naming rule assigned to a load case

Message

Duplicate naming rule assigned to a load case.

Severity

Crucial.

Detailed Description

The name of a load case may be defined by you or generated by a naming rule. If a naming rule generates the name, only one naming rule can be assigned to the load case.

Possible Cause

Copying and pasting a load combination that has factored load cases with names derived by a naming rule can generate these duplicate naming rules. It is not likely that a load case will have a naming rule-generated name so this situation should be a rare occurrence.

Possible Impacts

The Structural Analysis task will not be affected by these additional naming rules except that the name of the load case will not be generated correctly, resulting in load cases with the same name. Warning messages will be logged to the export log if an attempt is made to export these load cases during an export model operation; hence, third-party structural analysis packages will not be able to accept two or more load cases with the same name.

What You Should Do

Run the **Clean Database** custom command. The naming rule will be tagged as **To Be Deleted** by this command. Allow the command to remove the naming rule from the database.

Duplicate naming rule assigned to a load combination

Message

Duplicate naming rule assigned to a load combination.

Severity

Crucial.

Detailed Description

The name of a load combination may be defined by you or generated by a naming rule. If a naming rule generates the name, only one naming rule can be assigned to the load combination.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

Run the **Clean Database** custom command. The naming rule will be tagged as **To Be Deleted** by this command. Allow the command to remove the naming rule from the database.

Duplicate naming rule assigned to an analysis model

Message

Duplicate naming rule assigned to an analysis model.

Severity

Crucial.

Detailed Description

The name of an analysis model may be defined by you or generated by a naming rule. If a naming rule generates the name, only one naming rule can be assigned to the analysis model.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

Run the **Clean Database** custom command. The naming rule will be tagged as **To Be Deleted** by this command. Allow the command to remove the naming rule from the database.

Load associated to more than one load case

Message

Load associated to more than one load case.

Severity

High.

Detailed Description

A one-to-one relationship exists between a load and a load case; therefore, a load cannot be associated to two or more load cases.

Possible Cause

During the editing of a load, a different load case was selected to be assigned to the load without the software removing the original load case association. This failure to remove the original relationship was undetected during the edit, and the operation was completed successfully.

Possible Impacts

It is unknown what impact this situation will have on the edit commands because the commands that operate on loads expect only one associated load case. The **Export Analytical Model** command would either fail or produce an incorrect output file.

What You Should Do

Use the **Clean Database** custom command to remove this load.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Using the **Clean Database** custom command, remove this load.

Load associated to more than one member

Message

Load associated to more than one member.

Severity

High.

Detailed Description

A load has a single parent member that governs its position; therefore, a load that is associated to more than one member is ambiguous.

Possible Cause

It is unknown what could cause such a condition because the edit command for a load fails if such a condition is established.

Possible Impacts

The edit load command will fail, and the export of the analysis model will fail too.

What You Should Do

Use the **Clean Database** custom command to remove this load.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Using the **Clean Database** custom command, remove this load.

Load case does not have a parent load case folder

Message

Load case does not have a parent load case folder.

Severity

High.

Detailed Description

Load cases have a parent load case folder assigned to a plant or ship model. A load case cannot exist in the model without this association to this load case folder.

Possible Cause

It is unknown how this condition can occur because the relation to the load case folder may only be removed by deleting the load case or the plant or ship model. Because the load case still exists, the load case was obviously not deleted. Also, the model cannot be removed so it is not known how this relationship was severed.

Possible Impacts

The load case will be ignored; hence, the loads associated to the load case will also be ignored.

What You Should Do

The load case should be removed and re-added. Use the **Clean Database** custom command to remove this load case.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Using the **Clean Database** custom command, remove this load case.

Load combination has a factor to a load case that does not exist

Message

Load combination has a factor to a load case that does not exist.

Severity

High.

Detailed Description

A load combination is comprised of load case and factor pairs. In this instance, there is a factor but no load case.

Possible Cause

The load combinations control the permissions on the factors associated to the load cases. If a load case is deleted but the permissions on the load combination do not allow the modification of the load combination, it will result in the load combination appearing on the To Do List with a factor to a non-existent load case.

Possible Impacts

The load combination cannot be exported to analysis until this problem is corrected.

What You Should Do

A person with appropriate access rights should open the To Do List, select the load combination in the list, and remove the factor.

Load combination has no assigned load cases

Message

Load combination has no assigned load cases.

Severity

Normal.

Detailed Description

The load combination does not have any load cases added to it.

Possible Cause

Load cases which were previously added to the load combination have been deleted.

Possible Impacts

No impacts to you.

What You Should Do

You can either delete the load combination or interactively add load cases to the load combination.

Load has a force or moment magnitude of 0

Message

Load has a force or moment magnitude of 0.

Severity

Normal.

Detailed Description

A concentrated load is not allowed to have a magnitude of 0, and a distributed load is not allowed to have both end magnitudes of 0.

Possible Cause

The user interface will not allow load magnitudes to be zero (except for one end of a varying load); therefore, code outside of the software would have had to set the load magnitudes to 0.

Possible Impacts

None. The load is simply ignored.

What You Should Do

Select and modify the load, setting the magnitude to a non-zero value.

Load not assigned to a member part

Message

Load not assigned to a member part.

Severity

Normal.

Detailed Description

A load exists without being associated to a member part.

Possible Cause

This situation can be caused by having access rights to remove a member but no access rights to remove its loads. The member part is deleted, and the load appears in the To Do List.

Possible Impacts

None. The load is simply ignored.

What You Should Do

The load can be removed by someone who has access rights to delete loads:

1. Bring the offending load into your workspace using a workspace filter that filters for loads by object type. (It is not possible to pull the load into the workspace any other way because its parent member part no longer exists).
2. Open the To Do List, select the offending load, and delete it.

Load not associated to a load case

Message

Load not associated to a load case.

Severity

Normal.

Detailed Description

A load exists but does not have an associated load case.

Possible Cause

When deleting a load case, the software did not remove all the loads associated to a load case. The loads are listed on the To Do List as loads without a load case.

Possible Impacts

Loads will not update graphically until they are assigned a valid load case. Also, these loads will be ignored for the analysis export.

What You Should Do

Select the loads, and delete them. Or, edit the loads, and assign them a valid load case.

Load relative position is not between 0 and 1

Message

Load relative position is not between 0 and 1.

Severity

High.

Detailed Description

Relative positioned, concentrated, and distributed loads must be positioned along a member such that the fractional distance along the member can only be a value greater than or equal to 0 and less than or equal to 1.

Possible Cause

Unknown.

Possible Impacts

The load will be ignored when exporting the analysis model.

What You Should Do

Edit the load, and re-position the load along the member.

Multiple boundary conditions are assigned to the same end of a member part

Message

Multiple boundary conditions are assigned to the same end of a member part.

Severity

High.

Detailed Description

Only one boundary condition can exist at the end of a member part; however, a particular member part has two or more boundary conditions assigned.

Possible Cause

The most likely cause of this problem is a copy and paste operation, which does not prevent multiple boundary conditions from being pasted to the end of a member part.

Possible Impacts

Analysis export will only export one of the boundary conditions. A warning is written to the export log indicating that multiple boundary conditions were encountered and one was not exported.

What You Should Do

Remove one of the boundary conditions.

There is more than one analysis load case folder

Message

There is more than one analysis load case folder.

Severity

High.

Detailed Description

More than one load case folder exists under the model node.

Possible Cause

Unknown.

Possible Impacts

The **Export Analytical Model** command will not export the load cases correctly because it will only recognize one of the load case folders.

What You Should Do

Use the **Clean Database** custom command to remove the extra load case folder.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.

3. Using the **Clean Database** custom command, remove this load case folder.

There is more than one unassigned members folder

Message

There is more than one unassigned members folder.

Severity

High.

Detailed Description

More than one unassigned members folder exists under the model node.

Possible Cause

Two users simultaneously created the first analysis models, and two unassigned member folders were created.

Possible Impacts

Members with loads but not assigned to analysis models will appear beneath one or the other unassigned member folders. It will most likely just cause confusion as to which folder a member will appear under. This situation should not impact the software in any way.

What You Should Do

Use the **Clean Database** custom command to remove the extra unassigned member folder.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Using the **Clean Database** custom command, remove this folder.

SECTION 26

Structural Detailing

This section contains Structural Detailing database integrity messages.

A BeamPart does not have BeamPartProfileGeometry relationship

Message

A BeamPart does not have BeamPartProfileGeometry relationship.

Severity

Crucial.

Detailed Description

A Stand Alone Beam Part has no Geometry associated to it: Missing BeamPartProfileGeometry relationship to BeamStandAlonePart_AE for standalone BeamPart.

Possible Cause

Unknown.

Possible Impacts

- Object will not display or highlight.
- The weight and center of gravity (CoG) may not be calculated and will be invalid.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A BeamPart does not have GUIDBeamPartOrientation relationship

Message

A BeamPart does not have GUIDBeamPartOrientation relationship.

Severity

Crucial.

Detailed Description

A beam part does not have GUID beam part orientation relationship: Missing the GUIDBeamPartOrientation relationship to BeamStandAlonePart_AE for standalone BeamPart.

Possible Cause

Unknown.

Possible Impacts

- You cannot manipulate the object itself or other objects related to it.
- The weight and center of gravity (CoG) may not be calculated and will be invalid.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A CollarPart does not have the AssemblyMembersR relation

Message

A CollarPart does not have the AssemblyMembersR relation.

Severity

Fatal.

Detailed Description

A collar part does not have the assembly membersR relationship: Missing the AssemblyMembersR relationship to StructPhysicalConnection for CollarPart.

Possible Cause

Unknown.

Possible Impacts

- You cannot manipulate the object itself or other objects related to it.
- The weight and center of gravity (CoG) may not be calculated and will be invalid.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A CollarPart does not have the CollarDefiningData relation

Message

A CollarPart does not have the CollarDefiningData relation.

Severity

Fatal.

Detailed Description

A collar part does not have the collar defining data relation: Missing the CollarDefiningData relationship between the CollarPart and its CreateCollar_AE.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.

- Run the **Clean Database** custom command to delete the object.

A CollarPart does not have the CollarPlateData relation

Message

A CollarPart does not have the CollarPlateData relation.

Severity

Fatal.

Detailed Description

A collar part does not have the collar plate data relation: Missing the CollarPlateData relationship between the Collar Part and its CreateCollar_AE.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

A CreateCollar_AE does not have a related PlatePartGeometry

Message

A CreateCollar_AE does not have a related PlatePartGeometry.

Severity

Crucial.

Detailed Description

A collar part is missing its geometry.

A create collar active entity (AE) does not have a related plate part geometry: Missing the GeometryGeneration_RSLT1 relationship between the CreateCollar_AE and its resultant PlatePartGeometry.

Possible Cause

Unknown.

Possible Impacts

- The object will not display or highlight.
- The weight and center of gravity (CoG) may not be calculated and will be invalid.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact SmartMarine 3D Support.

A detailed PlatePartGeometry does not have a related AE

Message

A detailed PlatePartGeometry does not have a related AE.

Severity

Crucial.

Detailed Description

A Plate Part Geometry is missing a relationship to an Active Entity. The Geometry exists but is not related to an SDCutAE, PlateFinalTrim_AE, ChamferCut_AE, GeneratePlatePart_AE, PlateStrakingSplit_AE via the StructOperation_RSLT1 relationship.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

A PlateStrakingSplit_AE does not have a SurfaceBody

Message

A PlateStrakingSplit_AE does not have a SurfaceBody.

Severity

Crucial.

Detailed Description

A plate straking split active entity (AE) does not have a surface body: Missing the StructOperation_RSLT2 relationship to SurfaceBody2 for PlateStrakingSplit_AE.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the profile, and modify or re-compute as necessary.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A profile Part does not have a related ProfilePartCreation

Message

A profile Part does not have a related ProfilePartCreation.

Severity

Fatal.

Detailed Description

A StandAlone EdgeReinforcementProfilePart or a StandAloneStiffenerPart is missing its Cross Section information on its IJDProfileSection interface: Missing the SDInputGeometry relationship to ProfilePartCreation for standalone EdgeReinforcementProfilePart, StandAloneStiffenerPart.

Possible Cause

Unknown.

Possible Impacts

- The object will not display or highlight.
- The weight and center of gravity (CoG) may not be calculated and will be invalid.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A ProfilePart does not have a related GeneratePlatePart_AE

Message

A ProfilePart does not have a related GeneratePlatePart_AE.

Severity

Fatal.

Detailed Description

A profile part does not have a related generate plate part active entity (AE): Missing the TrimGeometry relationship to GeneratePlatePart_AE for standalone EdgeReinforcementProfilePart.

Possible Cause

Unknown.

Possible Impacts

The edge reinforcement will not be manageable.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Run the **Clean Database** custom command to delete the object.

A ProfilePart does not have a related ProfilePartGeometry

Message

A ProfilePart does not have a related ProfilePartGeometry.

Severity

Fatal.

Detailed Description

A profile part does not have a related profile part geometry: Missing the StructToGeometry relationship to ProfilePartGeometry for detailed StiffenerPart, detailed and standalone BeamPart, detailed and standalone EdgeReinforcementProfilePart, StandAloneStiffenerPart.

Possible Cause

Unknown.

Possible Impacts

- The object will not display or highlight.
- The weight and center of gravity (CoG) may not be calculated and will be invalid.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A ProfilePartCreation does not have a related ProfilePartPath

Message

A ProfilePartCreation does not have a related ProfilePartPath.

Severity

Crucial.

Detailed Description

A profile part creation does not have a related profile part path: Missing the InputLandingCurve relationship to ProfilePartPath for ProfilePartCreation.

The StandAlone ProfilePart does not have geometry.

Possible Cause

Unknown.

Possible Impacts

- The object will not display or highlight.
- The weight and center of gravity (CoG) may not be calculated and will be invalid.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the profile part, and define a landing curve.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A ProfilePartCreation does not have a related ProfilePartGeometry

Message

A ProfilePartCreation does not have a related ProfilePartGeometry.

Severity

Fatal.

Detailed Description

A profile part creation does not have a related profile part geometry: Missing the GeometryGeneration_RSLT1 relationship to ProfilePartGeometry for ProfilePartCreation.

Possible Cause

Unknown.

Possible Impacts

- The object will not display or highlight.
- The weight and center of gravity (CoG) may not be calculated and will be invalid.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Run the **Clean Database** custom command to delete the object.

A ProfilePartPath does not have a related ProfilePartCreation

Message

A ProfilePartPath does not have a related ProfilePartCreation.

Severity

Fatal.

Detailed Description

A profile part path (a landing curve) does not have a related profile part creation: Missing the InputLandingCurve relationship to ProfilePartCreation for ProfilePartPath.

Possible Cause

Unknown.

Possible Impacts

The edge reinforcement will not be manageable.

 **NOTE** Deleting this object should have no impact.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Run the **Clean Database** custom command to delete the object.

A ProfileTrim_AE does not have the ProfileTrim_OPER1 relation

Message

A ProfileTrim_AE does not have the ProfileTrim_OPER1 relation.

Severity

Crucial.

Detailed Description

The profile is not being trimmed properly.

Possible Cause

Unknown.

Possible Impacts

The Profile does not display properly. The information for manufacturing is incorrect.

What You Should Do

1. Delete the detailed Profile Part, so that a light part is re-created.
2. Re-detail the Profile Part.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A SketchFeature does not have an OutputColl

Message

A SketchFeature does not have an OutputColl.

Severity

Crucial.

Detailed Description

A Sketch feature does not have an OutputColl: Missing the FromOutputColltoOutputs relationship to OutputColl for SketchFeature.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the profile part and define a landing curve.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.

4. If the object is still posted, contact Smart 3D Support.

A SmartPlate does not have a related CreatePlatePart_AE

Message

A SmartPlate does not have a related CreatePlatePart_AE.

Severity

Fatal.

Detailed Description

A SmartPlate does not have a related create platePart active entity (AE): Missing the PlateDefiningData relationship between the SmartPlate and its CreatePlatePart_AE.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Run the **Clean Database** custom command to delete the object.

A straking Seam does not have a related StrakingSplit_AE

Message

A straking Seam does not have a related StrakingSplit_AE.

Severity

High.

Detailed Description

A straking seam does not have a related straking split active entity (AE). Possible situations:

- Missing the StructSplit_OPER1 relationship to PlateStrakingSplit_AE for straking seams.

- Missing the StructSplit_OPER1 relationship to ProfileStrakingSplit_AE for straking seam point.

Possible Cause

Unknown.

Possible Impacts

The split will not work.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

A Struct/Sketch Feature is missing its Cut or ProfileTrim Operator

Message

A Struct/Sketch Feature is missing its Cut or ProfileTrim Operator.

Severity

Fatal.

Detailed Description

A StructFeature or Sketch Feature should either be related to a Cut operator (the SDCutAE via the SDCut_OPER1) or to a Trim operator (the ProfileTrim_AE via the ProfileTrim_OPER1): Missing the SDCut_OPER1 relationship to SDCutAE or ProfileTrim_OPER1 for StructFeature, SketchFeature.

Possible Cause

Unknown.

Possible Impacts

- The object will not display or highlight.
- The weight and center of gravity (CoG) may not be calculated and will be invalid.

What You Should Do

1. Open the model.

2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

Active Entity with no physical connections as input

Message

Active Entity with no physical connections as input.

Severity

High.

Detailed Description

SplitPoint Active entity with no Physical connections as input (nothing to split): Missing the PhysicalConnectionToSplit relationship to IJStructGeometry for IJSplitPoint_AE.

Physical Connection Active Entity with no Physical Connections as input: Missing StructOperation_OPRND to IJPhyConSplitEntity for IJStructGeometry.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

An ActiveEntity does not have a Part

Message

An ActiveEntity does not have a Part.

Severity

Fatal.

Detailed Description

An active entity (AE) does not have a part.

- Missing the StructOperation_OPRND relationship to PlatePart for PlateStrakingSplit_AE.
- Missing the StructOperation_OPRND relationship to StiffenerPart for ProfileStrakingSplit_AE.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

An ActiveEntity does not have a related PartGeometry

Message

An ActiveEntity does not have a related PartGeometry.

Severity

Fatal.

Detailed Description

An active entity (AE) does not have a related part geometry.

- Missing the StructOperation_RSLT1 relationship to ProfilePartGeometry for ProfileTrim_AE, ProfileStrakingSplit_AE.
- Missing StructOperation_RSLT1 relationship to PlatePartGeometry for PlateStrakingSplit_AE
- Missing Part Geometry for the Cut Operation Missing StructOperation_RSLT1 relationship to (PlatePartGeometry, ProfilePartGeometry) for SDCutAE
- Missing the StructOperation_OPRND relationship to ProfilePartGeometry for ProfileTrim_AE. The ProfileTrim AE does not have the ProfilePart Geometry as input via the StructOperation_OPRND.

Possible Cause

Unknown.

Possible Impacts

- The object will not display or highlight.
- The weight and center of gravity (CoG) may not be calculated and will be invalid.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

An object does not have a related CreatePlatePartAE

Message

An object does not have a related CreatePlatePartAE.

Severity

Fatal.

Detailed Description

A StandAlone PlatePart or a SmartPlate is missing its CreatePlatePartAE: Missing the CreatePlatePart_OPRND relationship to CreatePlatePart_AE for Standalone Plate part, SmartPlate.

Possible Cause

Unknown.

Possible Impacts

- The object will not display or highlight.
- The weight and center of gravity (CoG) may not be calculated and will be invalid.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

An object does not have a related DReferencesCollection

Message

An object does not have a related DReferencesCollection.

Severity

Fatal.

Detailed Description

An object does not have a related DReferences collection.

- Missing the ReferencesCollectionToSymbolRelation relationship to DReferencesCollection for SmartPlate, CollarPart, StructFeature, StructPhysicalConnection.
- Missing relationship to symbol for StandAlonePlateParts, Features, and Physical Connections.

Possible Cause

Unknown.

Possible Impacts

- The object will not display or highlight.
- The weight and center of gravity (CoG) may not be calculated and will be invalid.

What You Should Do

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

An object does not have a related PlatePartGeometry

Message

An object does not have a related PlatePartGeometry.

Severity

Fatal.

Detailed Description

A Detailed PlatePart, StandAlonePlatePart, SmartPlate, or a CollarPart is missing a relationship to its geometry: Missing the StructToGeometry relationship to PlatePartGeometry for StandalonePlatePart, SmartPlate, CollarPart, and detailed plate part.

In some instances, the part exists with no other relationship. In this case, the part should be deleted.

Possible Cause

Unknown.

Possible Impacts

- The object will not display or highlight.
- The weight and center of gravity (CoG) may not be calculated and will be invalid.

What You Should Do**If the object can be updated:**

1. Open the model.
2. In the Molded Forms task, select the object, and modify it, if necessary. Or, select the object, and perform a re-computation to update it.
3. Re-run the **Check Database Integrity** custom command and the DBIntegrity report.
4. If the object is still posted, contact Smart 3D Support.

If the object is flagged for deletion:

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

Cut operation missing input geometry

Message

Cut operation missing input geometry.

Severity

Fatal.

Detailed Description

A cut operation is missing required input geometry: Missing the StructOperation_OPRND relationship to (PlatePartGeometry, ProfilePartGeometry) for SDCutAE.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

Edgetreatment with no edge connected to it

Message

Edgetreatment with no edge connected to it.

Severity

Fatal.

Detailed Description

An Edge treatment exists, but it is not related to an edge, and therefore needs to be deleted.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

Edgetreatment with zero length

Message

Edgetreatment with zero length.

Severity

High.

Detailed Description

An Edge treatment exists, but it has zero length. You should either delete or modify the edge treatment.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

Physical Connection Active entity with no outputs

Message

Physical Connection Active entity with no outputs.

Severity

High.

Detailed Description

Physical connection Active Entity does not have any outputs: Missing XStructOperation_RSLT1 relationship to IJPhyConSplitEntity for IJStructGeometry.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

Physical Connection Active entity without any inputs

Message

Physical Connection Active entity without any inputs.

Severity

High.

Detailed Description

Physical connection Active Entity does not have a Split point or Seam as input: Missing StructSplit_OPER1 relationship to IJGeometry for IJPhyConSplitEntity.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

Physical connection has multiple symbols

Message

Physical connection has multiple symbols.

Severity

Crucial.

Detailed Description

A physical connection has multiple symbols.

Possible Cause

Unknown.

Possible Impacts

- You may not be able to open the **Properties** dialog box for the physical connection.
- Cannot manufacture the corresponding part.

What You Should Do

1. Ask your database administrator to back up the model.
2. Open the model.
3. Run the **Clean Database** custom command.
4. Check the box beside the physical connections to be fixed, and then click **Clean Now**.

Physical connection only has dummy symbol

Message

Physical connection only has dummy symbol.

Severity

Crucial

Detailed Description

A physical connection only has one symbol, and it is a dummy symbol associated with a dummy selection rule.

Possible Cause

Unknown

Possible Impacts

- You cannot open the **Properties** dialog box for the physical connection.

- Cannot manufacture the corresponding part.

What You Should Do

1. Ask your database administrator to back up the model.
2. Open the model, and verify that the corresponding part is not on the To Do List.
★ IMPORTANT If the part is on the To Do List, you need to identify the cause and provide a solution; otherwise, the connection could get deleted.
3. Run the **Clean Database** custom command.
4. Check the box beside the physical connections to be fixed, and then click run **Clean Now**.

Split Point Active entity with no outputs

Message

Split Point Active entity with no outputs.

Severity

High.

Detailed Description

SplitPoint Active entity with no outputs (SplitPoint): Missing the GeomGenRSLT1 relationship for IJSplitPoint_AE.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

Split Point Active Entity with no RefFace as input

Message

Split Point Active Entity with no RefFace as input.

Severity

High.

Detailed Description

SplitPoint Active entity with no Reference Face as input: Missing the ReferenceFace relationship for IJSplitPoint_AE.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

Split point exists without active entity

Message

Split point exists without active entity.

Severity

Crucial.

Detailed Description

Split Point not related to an Active Entity: Missing the GeomGenRSLT1 relationship for IJSplitPoint_AE.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.

2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Smart 3D Support.
3. Delete the object using one of the following methods:
 - Select the object in the **Workspace Explorer**, and delete it.
 - Run the **Clean Database** custom command to delete the object.

Sketch Feature should not be connected to Definition Collection

Message

Sketch Feature should not be connected to Definition Collection.

Severity

Crucial.

Detailed Description

A sketch feature is a special type of symbol that should not be related to the Definition Collection. This relationship is for low level internal use by the software and is not visible to the user.

Possible Cause

If you split a plate system (and parts on it) by a design seam, the design seam splits a sketched feature so that it appears on more than one part. Some versions of Smart 3D can create this improper relationship. The root cause of this problem is fixed in version 2016; however, you can encounter this problem in earlier versions of Smart 3D.

Possible Impacts

Some copy operations will fail if the software encounters an improper relationship. You can copy parts using the normal procedure to correct the problem and also perform the steps listed below.

What You Should Do

1. Ask your database administrator to back up the model.
2. Open the model.
3. Run the **Clean Database** custom command.
4. Select the check box for the sketch feature you want to fix, and then click **Clean Now**.

The Sketching Plane of Sketched Feature should not be from Cut Geometry

Message

The Sketching Plane of Sketched Feature should not be from Cut Geometry.

Severity

Crucial.

Detailed Description

The input port that defines the sketch plane for a sketch feature cannot be from the geometry that is cut by the sketch feature. The feature creation command normally prevents the selection of a port on the wrong geometry. If the Database Integrity check finds a sketch feature that is using an improper port, it reports the problem. If the database integrity repair command is run on any one of these features, it replaces the improper port with an equivalent port from the proper geometry for each reported feature. The repair command repairs all problems of this type if any one feature is repaired.

Possible Cause

Unknown.

Possible Impacts

The final part geometry is not created.

What You Should Do

1. Ask your database administrator to back up the model.
2. Open the model.
3. Run the **Clean Database** custom command.
4. Select the check box for the sketch feature you want to fix, and then click **Clean Now**.

The object should be in the StructDetail PermissionGroup

Message

The object should be in the StructDetail PermissionGroup.

Severity

High.

Detailed Description

There is a Permission Group for Struct Detailing objects. This object should be in the Struct Detail Permission Group, but it is not.

Possible Cause

The object may have been created prior to the creation of the Struct Detail Permission Group.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command.
3. Select the object in the list of objects.
4. Click **Clean Now** to place the object in the Struct Detail Permission Group.

Too many flavors have been created for non-symbol objects

Message

Too many flavors have been created for non-symbol objects.

Severity

Normal.

Detailed Description

Flavors allow an object to have different symbolic display geometries. In the case of assembly connections, free end cuts, and hole Smart Occurrences, there is no symbolic display stored; the display is geometrically available. Note that the bulkload files for these classes lack symbols. Therefore, these objects can relate to the same flavor. Currently, there are tens of thousands of flavors in the database for these objects. The software can exhibit performance issues when users work with objects dealing with flavors, for example, during a copy-paste operation.

The goal is to minimize the number of flavors for the classes noted. This goal can be accomplished by running the **Database > Integrity** command (full check) and then running the **Clean Database** custom command.

Possible Cause

The software created a unique flavor for each instance of an assembly connection, free end cut, or hole Smart Occurrence.

Possible Impacts

The primary impact of this problem is in the performance of the software.

What You Should Do

1. Open the model.
2. Do one of the following actions:
 - Run the **Clean Database** custom command to correct this problem. Check the box beside the object(s) to be fixed, and run the operation.
 - Alternatively, double-click the CleanUnnecessaryFlavors.sql file found in the StructDetail\Server\Schema\SQL\DataIntegrityScripts folder. Select the server and database, and execute the script.
3. Run the **Database > Integrity** command and the DB Integrity report. If the object is still posted, contact Smart 3D Support.

SECTION 27

Structural Manufacturing

This section contains Structural Manufacturing database integrity messages.

Assembly Margin does not have Assembly

Message

Assembly Margin does not have Assembly.

Severity

Fatal.

Detailed Description

An Assembly margin does not have an Assembly, although the Assembly Margin is a child of the Assembly.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Assembly Margin parent does not have Assembly margin child

Message

Assembly Margin does not have Assembly margin child.

Severity

Fatal.

Detailed Description

An Assembly Margin parent does not have an Assembly margin child.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

BuiltUp Profile Nestdata does not have MfgProfile

Message

BuiltUp Profile Nestdata does not have MfgProfile.

Severity

Fatal.

Detailed Description

The BuiltUp Profile Nestdata does not have a MfgProfile.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Incorrect UpToDate column in StrMfgUpdateInfo table

Message

Incorrect UpToDate column in StrMfgUpdateInfo table.

Severity

High.

Detailed Description

The UpToDate column in the StrMfgUpdateInfo table is incorrect.

Possible Cause

The model is from an earlier version of the software.

Possible Impacts

Cannot support more statuses for manufacturing objects.

What You Should Do

To convert the data type of the UpToDate column from bit to int, run the S:\StructManufacturing\Server\Schema\Sql\VersionMigration\V6toV6.1\DM99008_DBIIntegrityFix.sql script on the Model database.

Input-Added MfgPin does not have PinJig active entity

Message

Input-Added MfgPin does not have PinJig active entity.

Severity

Fatal.

Detailed Description

An Input-Added MfgPin does not have a PinJig active entity through the 'InputAddedMfgPin' relation.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Manufacturing children without parent

Message

Manufacturing children without parent

Severity

Crucial

Detailed Description

The manufacturing object does not have any parent, and it is left as an orphan in the model database. When this object is seen in the workspace navigator, it is hooked parallel to the project configuration root instead of the corresponding plate part or profile part.

Possible Cause

Unknown

Possible Impacts

- The manufacturing object is left in the work space as an orphan, and it is difficult to modify.
- The object might not be considered as manufacturing data if it is margin, marking, or shrinkage.

What You Should Do

1. To repair the object, run the Clean Database custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj).

This command displays a dialog box that lists the objects in error.

2. From the list, select the objects and repair them by clicking **Clean Now**.

Manufacturing definition does not have port

Message

Manufacturing definition does not have port.

Severity

High.

Detailed Description

Manufacturing definitions, which include CAssyMarginChild, CConstMargin, CMfgDefinition, CMfgMarkingLinesData, CMfgWeldCompensation, CObliqueMargin, CPositionShr, CScalingShr, CTemplateControlLine, and CTemplateLocationMark, do not have a port.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Manufacturing objects without parent

Message

Manufacturing objects without parent.

Severity

Fatal.

Detailed Description

Manufacturing objects do not have a parent.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Manufacturing SmartOccurrence without part input

Message

Manufacturing SmartOccurrence without part input.

Severity

Crucial.

Detailed Description

Manufacturing SmartOccurrence objects, which include CMfgPlateMarkingSettings, CMfgPlateProcessSettings, CMfgProfileMarkingSettings, CMfgProfileProcessSettings, CMfgTemplateMarkingSettings, and CMfgTemplateProcessSettings, are not connected to part input StructMfgSymbolInput relation.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Marking Lines active entity without any reference object as input

Message

Marking Lines active entity without any reference object as input.

Severity

High.

Detailed Description

Marking Lines active entity does not have a reference object as input.

Possible Cause

Unknown.

Possible Impacts

The related business object display does not correspond to its real geometrical state.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Marking Lines active entity without any output

Message

Marking Lines active entity without any output.

Severity

Fatal.

Detailed Description

Marking Lines active entity does not have any output.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Marking line active entity without detailed part as input

Message

Marking line active entity without detailed part as input.

Severity

Fatal.

Detailed Description

Marking line active entity does not have a detailed part as input.

Possible Cause

Unknown.

Possible Impacts

The related business object display does not correspond to its real geometrical state.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Marking line does not have Parent

Message

Marking line does not have Parent.

Severity

Fatal.

Detailed Description

Marking line does not have a Parent.

Possible Cause

Coding or data model errors.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

MfgBevel does not have Geom2D

Message

MfgBevel does not have Geom2D.

Severity

Fatal.

Detailed Description

A Manufacturing Bevel object does not have a Geom2D.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

MfgHitachi object does not have MfgPlatePart

Message

MfgHitachi object does not have MfgPlatePart.

Severity

Fatal.

Detailed Description

A MfgHitachi object does not have a MfgPlatePart.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

MfgPlateCreation active entity does not have DetailPlatePart as Input

Message

MfgPlateCreation active entity does not have DetailPlatePart as Input.

Severity

Fatal.

Detailed Description

A MfgPlateCreation active entity does not have a DetailPlatePart as input.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

MfgPlateCreation active entity does not have SmartOccurrence Object

Message

MfgPlateCreation active entity does not have SmartOccurrence Object.

Severity

Fatal.

Detailed Description

A MfgPlateCreation active entity does not have a SmartOccurrence object.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

MfgPlateMarking Settings object does not have MfgPlateCreation active entity

Message

MfgPlateMarking Settings object does not have MfgPlateCreation active entity.

Severity

Fatal.

Detailed Description

A MfgPlateMarking Settings object does not have a MfgPlateCreation active entity through the 'MfgPlateSettingsInput' relation.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

MfgPlatePart active entity does not have MfgPlatePart

Message

MfgPlatePart active entity does not have MfgPlatePart.

Severity

Fatal.

Detailed Description

A MfgPlatePart active entity does not have a MfgPlatePart.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

MfgPlatePart does not have MfgPlatePart active entity

Message

MfgPlatePart does not have MfgPlatePart active entity.

Severity

Fatal.

Detailed Description

A MfgPlatePart does not have a MfgPlatePart active entity.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

MfgPlateProcess Settings object does not have MfgPlateCreation active entity

Message

MfgPlateProcess Settings object does not have MfgPlateCreation active entity.

Severity

Fatal.

Detailed Description

A MfgPlateProcess Settings object does not have a MfgPlateCreation active entity through the 'MfgPlateSettingsInput' relation.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

MfgProfile Part does not have MfgProfileCreation active entity

Message

MfgProfile Part does not have MfgProfileCreation active entity.

Severity

Fatal.

Detailed Description

A MfgProfile Part does not have a MfgProfileCreation active entity.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

MfgProfileCreation active entity does not have DetailPlatePart as Input

Message

MfgProfileCreation active entity does not have DetailPlatePart as Input.

Severity

Fatal.

Detailed Description

A MfgProfileCreation active entity does not have a DetailPlate Part as Input.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

MfgProfileCreation active entity does not have MfgProfilePart

Message

MfgProfileCreation active entity does not have MfgProfilePart.

Severity

Fatal.

Detailed Description

A MfgProfileCreation active entity does not have a MfgProfilePart.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

MfgProfileCreation active entity does not have SmartOccurrence object

Message

MfgProfileCreation active entity does not have SmartOccurrence object.

Severity

Fatal.

Detailed Description

A MfgProfileCreation active entity does not have a SmartOccurrence object.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

MfgProfileMarking Settings object does not have MfgProfileCreation active entity

Message

MfgProfileMarking Settings object does not have MfgProfileCreation active entity.

Severity

Fatal.

Detailed Description

A MfgProfileMarking Settings object does not have a MfgProfileCreation active entity through the 'MfgProfileSettingsInput' relation.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

MfgProfileProcess Settings object does not have MfgProfileCreation active entity

Message

MfgProfileProcess Settings object does not have MfgProfileCreation active entity.

Severity

Fatal.

Detailed Description

A MfgProfileProcess Settings object does not have a MfgProfileCreation active entity through the 'MfgProfileSettingsInput' relation.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Oblique margin does not have port

Message

Oblique margin does not have port.

Severity

Fatal.

Detailed Description

Oblique margin does not have a port.

Possible Cause

Coding or data model errors.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

PinJig active entity does not have Input-Supported plate

Message

PinJig active entity does not have Input-Supported plate.

Severity

Fatal.

Detailed Description

A PinJig active entity does not have an Input-Supported plate.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

PinJig active entity does not have output Jig

Message

PinJig active entity does not have output Jig.

Severity

Fatal.

Detailed Description

A PinJig active entity does not have an output Jig.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

PinJig active entity does not have Seams with 'ButtAndSeam' relation

Message

PinJig active entity does not have Seams with 'ButtAndSeam' relation.

Severity

Fatal.

Detailed Description

A PinJig active entity does not have Seams with the 'ButtAndSeam' relation.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Shrinkage Active entity does not have detailed part as input

Message

Shrinkage Active entity does not have detailed part as input.

Severity

High.

Detailed Description

Shrinkage Active entity does not have a plate part as input.

Possible Cause

Unknown.

Possible Impacts

The related business object display does not correspond to its real geometrical state.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Shrinkage Active entity without Output

Message

Shrinkage Active entity without Output.

Severity

Fatal.

Detailed Description

Shrinkage might have been applied without any shrinkage input values.

Possible Cause

Coding or data model errors.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Shrinkage Active entity without Primary Axis

Message

Shrinkage Active entity without Primary Axis.

Severity

High.

Detailed Description

Shrinkage object exists without a Primary Axis.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Shrinkage Active entity without Primary port

Message

Shrinkage Active entity without Primary port.

Severity

High.

Detailed Description

Shrinkage object exists without a Primary port.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

The primary port object will not be seen in a graphic view.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Shrinkage Active entity without Secondary Axis

Message

Shrinkage Active entity without Secondary Axis.

Severity

High.

Detailed Description

Shrinkage object exists without a Secondary Axis.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Shrinkage Active entity without Secondary port

Message

Shrinkage Active entity without Secondary port.

Severity

High.

Detailed Description

Shrinkage exists without a Secondary port.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

The Secondary port object will not be seen in a graphic view.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Shrinkage object with secondary factor but no secondary direction

Message

Shrinkage object with secondary factor but no secondary direction.

Severity

Fatal.

Detailed Description

A Shrinkage object has a non-zero secondary factor but no secondary direction.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Shrinkage output without active entity

Message

Shrinkage output without active entity.

Severity

Fatal.

Detailed Description

Shrinkage output does not have an active entity.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

System marks do not have relation to MfgGeom3d or MfgGeom2d

Message

System marks do not have relation to MfgGeom3d or MfgGeom2d.

Severity

Fatal.

Detailed Description

System marks do not have a relation to MfgGeom3d or MfgGeom2d.

Possible Cause

Coding or data model errors.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

System marks are on 2D relation but do not have MfgGeom2d

Message

System marks are on 2D relation but do not have MfgGeom2d.

Severity

High.

Detailed Description

System marks are on the 2D relation but do not have MfgGeom2d.

Possible Cause

Coding or data model errors.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

System marks are on 3d relation but do not have MfgGeom3d

Message

System marks are on 3d relation but do not have MfgGeom3d.

Severity

High.

Detailed Description

System marks are on the 3d relation but do not have MfgGeom3d.

Possible Cause

Coding or data model errors.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Template active entity does not have Input Sketching Plane

Message

Template active entity does not have Input Sketching Plane.

Severity

Fatal.

Detailed Description

A Template active entity does not have an Input Sketching Plane through the 'InputSketchingPlane' relation.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Template active entity without output

Message

Template active entity without output.

Severity

Fatal.

Detailed Description

Template object exists without output.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

The Template object will not be seen in a graphic view.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Template active entity without plate input

Message

Template active entity without plate input.

Severity

Fatal.

Detailed Description

Template object exists without plate input.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Template active entity without Process and Marking settings

Message

Template active entity without Process and Marking settings.

Severity

Fatal.

Detailed Description

Template object exists without Process and Marking tabs in the settings.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

Template has invalid child

Message

Template has invalid child.

Severity

Fatal.

Detailed Description

A Template has an invalid child.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

TemplateMarking Settings without active entity

Message

TemplateMarking Settings without active entity.

Severity

Fatal.

Detailed Description

TemplateMarking Settings do not have an active entity.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

TemplateProcess Settings without active entity

Message

TemplateProcess Settings without active entity.

Severity

Fatal.

Detailed Description

TemplateProcess Settings do not have an active entity.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

TemplateSet object without active entity

Message

TemplateSet object without active entity.

Severity

Fatal.

Detailed Description

A Template does not have an associated active entity, although the Template is the output of an active entity.

Possible Cause

Coding or data model errors in an earlier version.

Possible Impacts

Unknown.

What You Should Do

To delete the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and delete them.

The object should be in the StructManufacturing PermissionGroup

Message

The object should be in the StructManufacturing PermissionGroup.

Severity

High.

Detailed Description

There is a Permission Group for Structural Manufacturing objects. This object should be in the Structural Manufacturing Permission Group, but it is not.

Possible Cause

The object may have been created prior to the creation of the Structural Manufacturing Permission Group.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command.
3. Select the object in the list of objects.
4. Click **Clean Now** to place the object in the Structural Manufacturing Permission Group.

Structural Manufacturing Permission Group and Approval Status Messages

This section contains permission group and approval status messages for Structural Manufacturing.

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See Also

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Added Pin's Approval Status does not match with Pin Jig's Approval Status

Message

Added Pin's Approval Status does not match with Pin Jig's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the Added Pin object does not match the approval status of the Pin Jig object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProglD: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Added Pin's Permission Group does not match with Pin Jig's Permission Group

Message

Added Pin's Permission Group does not match with Pin Jig's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the Added Pin object does not match the permission group of the Pin Jig object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Assembly margin child's Approval Status does not match with Assembly Margin's Approval Status

Message

Assembly margin child's Approval Status does not match with Assembly Margin's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the Assembly margin child object does not match the approval status of the Assembly Margin object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Assembly margin child's Permission Group does not match with Assembly Margin's Permission Group

Message

Assembly margin child's Permission Group does not match with Assembly Margin's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the Assembly margin child object does not match the permission group of the Assembly Margin object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Base Control Line Symbol's Approval Status does not match with Template's Approval Status

Message

Base Control Line Symbol's Approval Status does not match with Template's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the Base Control Line Symbol object does not match the approval status of the Template object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProglID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Base Control Line Symbol's Permission Group does not match with Template's Permission Group

Message

Base Control Line Symbol's Permission Group does not match with Template's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the Base Control Line Symbol does not match the permission group of the Template object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProglID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Base plane's Approval Status does not match with Template's Approval Status

Message

Base plane's Approval Status does not match with Template's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the Base plane object does not match the approval status of the Template object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Base plane's Permission Group does not match with Template's Permission Group

Message

Base plane's Permission Group does not match with Template's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the Base plane object does not match the permission group of the Template object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Manufacturing parts under Plate part or Profile part do not have same Approval Status

Message

Manufacturing parts under Plate part or Profile part do not have same Approval Status.

Severity

Crucial.

Detailed Description

The manufacturing parts under the plate part or profile part do not the same approval status.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProglID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Manufacturing parts under Plate part or Profile part do not have same Permission Group

Message

Manufacturing parts under Plate part or Profile part do not have same Permission Group.

Severity

Crucial.

Detailed Description

The manufacturing parts under the plate part or profile part do not have the same permission group.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

MarkingLineData's Approval Status does not match with Marking Line's Approval Status

Message

MarkingLineData's Approval Status does not match with Marking Line's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the MarkingLineData object does not match the approval status of the Marking Line object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

MarkingLineData's Permission Group does not match with Marking Line's Permission Group

Message

MarkingLineData's Permission Group does not match with Marking Line's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the MarkingLineData object does not match the permission group of the Marking Line object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

MfgBevel object's Approval Status does not match with MfgPlate/MfgProfile's Approval Status

Message

MfgBevel object's Approval Status does not match with MfgPlate/MfgProfile's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the MfgBevel object does not match the approval status of the MfgPlate or MfgProfile objects.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

MfgBevel object's Permission Group does not match with MfgPlate/MfgProfile's Permission Group

Message

MfgBevel object's Permission Group does not match with MfgPlate/MfgProfile's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the MfgBevel object does not match the permission group of the MfgPlate or MfgProfile objects.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

MfgDefinition's Approval Status does not match with Pin Jig's Approval Status

Message

MfgDefinition's Approval Status does not match with Pin Jig's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the MfgDefinition object does not match the approval status of the Pin Jig object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

MfgDefinition's Permission Group does not match with Pin Jig's Permission Group

Message

MfgDefinition's Permission Group does not match with Pin Jig's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the MfgDefinition object does not match the permission group of the Pin Jig object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

MfgGeneralHitachi's Approval Status does not match with MfgPlatePart's Approval Status

Message

MfgGeneralHitachi's Approval Status does not match with MfgPlatePart's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the MfgGeneralHitachi object does not match the approval status of the MfgPlatePart object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

MfgGeneralHitachi's Permission Group does not match with MfgPlatePart's Permission Group

Message

MfgGeneralHitachi's Permission Group does not match with MfgPlatePart's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the MfgGeneralHitachi object does not match the permission group of the MfgPlatePart object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

MfgGeomchild's Approval Status does not match with MfgGeomParent's Approval Status

Message

MfgGeomchild's Approval Status does not match with MfgGeomParent's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the MfgGeomchild object does not match the approval status of the MfgGeomParent object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProglD: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

MfgGeomchild's Permission Group does not match with MfgGeomParent's Permission Group

Message

MfgGeomchild's Permission Group does not match with MfgGeomParent's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the MfgGeomchild object does not match the permission group of the MfgGeomParent object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProglD: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

MfgNestData object's Approval Status does not match with MfgProfilePart's Approval Status

Message

MfgNestData object's Approval Status does not match with MfgProfilePart's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the MfgNestData object does not match the approval status of the MfgProfilePart object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProglD: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

MfgNestData object's Permission Group does not match with MfgProfilePart's Permission Group

Message

MfgNestData object's Permission Group does not match with MfgProfilePart's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the MfgNestData object does not match the permission group of the MfgProfilePart object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

MfgSystemMark3D object's Approval Status does not match with MfgProfile's Approval Status

Message

MfgSystemMark3D object's Approval Status does not match with MfgProfile's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the MfgSystemMark3D object does not match the approval status of the MfgProfile object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

MfgSystemMark3D object's Permission Group does not match with MfgProfile's Permission Group

Message

MfgSystemMark3D object's Permission Group does not match with MfgProfile's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the MfgSystemMark3D object does not match the permission group of the MfgProfile object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Pin Jig active entity's Approval Status does not match with Pin Jig's Approval Status

Message

Pin Jig active entity's Approval Status does not match with Pin Jig's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the Pin Jig active entity does not match the approval status of the Pin Jig.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Pin Jig active entity's Permission Group does not match with Pin Jig's Permission Group

Message

Pin Jig active entity's Permission Group does not match with Pin Jig's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the Pin Jig active entity does not match the permission group of the Pin Jig.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Plate creation active entity's Approval Status does not match with MfgPlatePart's Approval Status

Message

Plate creation active entity's Approval Status does not match with MfgPlatePart's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the plate creation active entity does not match the approval status of the MfgPlatePart object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Plate creation active entity's Permission Group does not match with MfgPlatePart's Permission Group

Message

Plate creation active entity's Permission Group does not match with MfgPlatePart's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the plate creation active entity does not match the permission group of the MfgPlatePart object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Profile creation active entity's Approval Status does not match with MfgProfilePart's Approval Status

Message

Profile creation active entity's Approval Status does not match with MfgProfilePart's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the profile creation active entity does not match the approval status of the MfgProfilePart object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Profile creation active entity's Permission Group does not match with MfgProfilePart's Permission Group

Message

Profile creation active entity's Permission Group does not match with MfgProfilePart's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the profile creation active entity does not match the permission group of the MfgProfilePart object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Shrinkage active entity's Approval Status does not match with Shrinkage's Approval Status

Message

Shrinkage active entity's Approval Status does not match with Shrinkage's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the Shrinkage active entity does not match the approval status of the Shrinkage object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProglD: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Shrinkage active entity's Permission Group does not match with Shrinkage's Permission Group

Message

Shrinkage active entity's Permission Group does not match with Shrinkage's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the Shrinkage active entity does not match the permission group of the Shrinkage object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Sketch Template Line Symbol's Approval Status does not match with Template's Approval Status

Message

Sketch Template Line Symbol's Approval Status does not match with Template's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the Sketch Template Line Symbol does not match the approval status of the Template.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Sketch Template Line Symbol's Permission Group does not match with Template's Permission Group

Message

Sketch Template Line Symbol's Permission Group does not match with Template's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the Sketch Template Line Symbol does not match the permission group of the Template.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

SmartOccurrence object's Approval Status does not match with MfgPlatePart's Approval Status

Message

SmartOccurrence object's Approval Status does not match with MfgPlatePart's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the SmartOccurrence object does not match the approval status of the MfgPlatePart object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

SmartOccurrence object's Approval Status does not match with MfgProfilePart's Approval Status

Message

SmartOccurrence object's Approval Status does not match with MfgProfilePart's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the SmartOccurrence object does not match the approval status of the MfgProfilePart object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

SmartOccurrence object's Approval Status does not match with Template's Approval Status

Message

SmartOccurrence object's Approval Status does not match with Template's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the SmartOccurrence object does not match the approval status of the Template object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

SmartOccurrence object's Permission Group does not match with MfgPlatePart's Permission Group

Message

SmartOccurrence object's Permission Group does not match with MfgPlatePart's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the SmartOccurrence object does not match the permission group of the MfgPlatePart object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

SmartOccurrence object's Permission Group does not match with MfgProfilePart's Permission Group

Message

SmartOccurrence object's Permission Group does not match with MfgProfilePart's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the SmartOccurrence object does not match the permission group of the MfgProfilePart object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

SmartOccurrence object's Permission Group does not match with Template's Permission Group

Message

SmartOccurrence object's Permission Group does not match with Template's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the SmartOccurrence object does not match the permission group of the Template object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Symbol's Approval Status does not match with Marking Line's Approval Status

Message

Symbol's Approval Status does not match with Marking Line's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the Symbol object does not match the approval status of the Marking Line object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Symbol's Permission Group does not match with Marking Line's Permission Group

Message

Symbol's Permission Group does not match with Marking Line's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the Symbol object does not match the permission group of the Marking Line object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

SystemMark2D object's Approval Status does not match with MfgProfile's Approval Status

Message

SystemMark2D object's Approval Status does not match with MfgProfile's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the SystemMark2D object does not match the approval status of the MfgProfile object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

SystemMark2D object's Permission Group does not match with MfgProfile's Permission Group

Message

SystemMark2D object's Permission Group does not match with MfgProfile's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the SystemMark2D object does not match the permission group of the MfgProfile object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProglD: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Template active entity's Approval Status does not match with Template's Approval Status

Message

Template active entity's Approval Status does not match with Template's Approval Status.

Severity

Crucial.

Detailed Description

The approval status of the Template active entity does not match the approval status of the Template object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

Template active entity's Permission Group does not match with Template's Permission Group**Message**

Template active entity's Permission Group does not match with Template's Permission Group.

Severity

Crucial.

Detailed Description

The permission group of the Template active entity does not match the permission group of the Template object.

Possible Cause

Coding or data model propagation errors.

Possible Impacts

Unknown.

What You Should Do

To repair the object, run the **Clean Database** custom command (ProgID: SP3DCleanDatabaseCmd.CCheckObj). This command displays a dialog box that lists the objects in error. From the list, you can select the objects and repair them by clicking **Clean Now**.

SECTION 28

Structure

This section contains Structure database integrity messages.

Assembly connection does not have a cutting plane

Message

Assembly connection does not have a cutting plane.

Severity

Crucial.

Detailed Description

Many of the assembly connections require a cutting plane to trim the supported member. When this error occurs, the cutting plane is missing from the assembly connection.

Possible Cause

Unknown.

Possible Impacts

Assembly connection will not compute properly. The connection will not be trimmed or coped to the supporting member.

What You Should Do

The assembly connection needs to be removed and re-created.

1. Open the model.
2. Locate the offending assembly connection, and delete it from the model.
3. Re-create the assembly connection through the normal create assembly connection process.

Assembly connection missing relation to supported member part end port

Message

Assembly connection missing relation to supported member part end port.

Severity

Medium.

Detailed Description

The relationship between the assembly connection and the supported member end port does not exist.

Possible Cause

Unknown.

Possible Impacts

The assembly connection will not compute properly, so any trim or cut operation on the supported member will not occur.

What You Should Do

The assembly connection needs to be removed and re-created.

1. Open the model.
2. Locate the offending assembly connection, and delete it from the model.
3. Re-create the assembly connection through the normal create assembly connection process.

Assembly connection does not have an associated feature

Message

Assembly connection does not have an associated feature.

Severity

Crucial.

Detailed Description

Many of the assembly connections have features to trim or cope the supported member. When this error occurs, the feature is missing from the assembly connection.

Possible Cause

Unknown.

Possible Impacts

Assembly connection will not compute properly. The connection will not be copied to the supporting member.

What You Should Do

The assembly connection needs to be removed and re- created.

1. Open the model.
2. Locate the offending assembly connection, and delete it from the model.
3. Re-create the assembly connection through the normal create assembly connection process.

Assembly connection feature is incorrectly related to member part

Message

Assembly connection feature is incorrectly related to member part.

Severity

High.

Detailed Description

The assembly connection is not properly related to the feature of the assembly connection.

Possible Cause

Unknown.

Possible Impacts

Assembly connection will not perform its trim or cope operation. Most likely, the assembly connection is listed in the To Do List if this error occurs.

What You Should Do

If this error occurs, the only option is to remove the assembly connection:

1. Open the model.
2. Delete the assembly connection.

Assembly connection is missing a relation to the supported members end port

Message

Assembly connection is missing a relation to the supported members end port.

Severity

Crucial.

Detailed Description

The relationship between the supported member part and the assembly connection does not exist. This relationship provides the proper compute order so that plate parts get generated after a cut operation occurs.

Possible Cause

Unknown.

Possible Impacts

Typically, plate parts will not appear at the correct location for gusset and corner-gusset type assembly connections.

What You Should Do

The assembly connection needs to be removed and re-created.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Locate the offending assembly connection, and delete it from the model.
5. Re-create the assembly connection through the normal create assembly connection process.

Assembly connection is missing one or more of its custom plate parts

Message

Assembly connection is missing one or more of its custom plate parts.

Severity

Crucial.

Detailed Description

The identified assembly connection should have a generated custom plate part as its output (such as the base plate for the bottom of a column or the gusset for a gusset-type connection).

It is highly likely that if this database message appears, the assembly connection is also in the To Do List as a result of an inconsistent geometric condition (for example, the supported and supporting members no longer intersect).

Possible Cause

Unknown.

Possible Impacts

No gusset plate or base plate will appear for the assembly connection.

What You Should Do

The assembly connection needs to be re-created.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Locate the offending assembly connection, and delete it from the model.
5. Re-create the assembly connection through the normal create assembly connection process.

Assembly connection is missing one or more related axis ports

Message

Assembly connection is missing one or more related axis ports.

Severity

Crucial.

Detailed Description

The identified assembly connection has a fixed number of relations that should exist between the assembly connection and the supported/supporting members. When this fixed number of relations is not as expected, this error occurs.

Possible Cause

Unknown.

Possible Impacts

It is highly probable that the assembly connection will not compute properly, so the cut or trim operation will not occur, and any generated plates will not be created.

What You Should Do

The assembly connection needs to be re-created.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Locate the offending assembly connection, and delete it from the model.
5. Re-create the assembly connection through the normal create assembly connection process.

Assembly connection missing relation to supporting member part

Message

Assembly connection missing relation to supporting member part.

Severity

Crucial.

Detailed Description

The relationship between the supporting member part and the assembly connection does not exist.

Possible Cause

Unknown.

Possible Impacts

Computation of the assembly connection will not occur when the supporting member is modified.

What You Should Do

The assembly connection needs to be removed and re-created.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.

4. Locate the offending assembly connection, and delete it from the model.
5. Re-create the assembly connection through the normal create assembly connection process.

Assembly connection missing relation to supporting member part end port

Message

Assembly connection missing relation to supporting member part end port.

Severity

Crucial.

Detailed Description

The relationship between the supporting member part end port and the assembly connection does not exist. All assembly connections must have a relationship to the supporting member part end port.

Possible Cause

Unknown.

Possible Impacts

Assembly connections will not compute properly (they will not be copied to the supporting member, or the plate parts of the assembly connection will not be generated).

What You Should Do

The assembly connection needs to be removed and re-created.

1. Open the model.
2. Locate the offending assembly connection, and delete it from the model.
3. Re-create the assembly connection through the normal create assembly connection process.

Axis joint copy property flag is not zero or the point on value is not -1.0

Message

Axis joint copy property flag is not zero or the point on value is not -1.0.

Severity

Normal.

Detailed Description

The axis joint provides the connection between two member systems. When an axis joint is copied, the properties are altered to facilitate the copy; however, these properties should not be set persistently in the database.

Possible Cause

A copy operation prematurely failed; however, the transaction was allowed to continue with these copy properties set on the axis joint.

Possible Impacts

The next graphical modification of the member systems connected to this axis joint may behave differently where all point-on member systems will maintain a relative distance along similar to how copy behaves.

What You Should Do

Because axis joints are not first class objects, there is little one can do to manually correct the problem.

1. Ask your database administrator to back up the model.
2. Send the backup and any information that may have led to this error to Intergraph Process, Power & Marine Support.

As members are manipulated in the model, this error will disappear from the list of integrity errors.

Can Rule exists in CORESpatialIndex

Message

Can Rule exists in CORESpatialIndex

Severity

Normal

Detailed Description

The Can Rule should not exist in the spatial index table.

Possible Cause

Unknown

Possible Impacts

Unknown

What You Should Do

1. Re-import the right data.

2. Run the fix script when it is available.

Can Rule missing aggregated GCMacro

Message

Can Rule missing aggregated GCMacro

Severity

Normal

Detailed Description

The Can Rule's aggregated Geometric Construction macro object is missing.

Possible Cause

The can failed to compute correctly.

Possible Impacts

Unknown

What You Should Do

1. Delete and replace the can.
2. Run the fix script when it is available.

Can Rule missing aggregated point

Message

Can Rule missing aggregated point

Severity

Normal

Detailed Description

The Can Rule's aggregated point object is missing.

Possible Cause

The can failed to compute correctly.

Possible Impacts

Unknown

What You Should Do

1. Delete and replace the can.
2. Run the fix script when it is available.

Can Rule missing Member System input

Message

Can Rule missing Member System input

Severity

Normal

Detailed Description

The Can Rule exists, but it has no Member System input.

Possible Cause

The can is an orphan can.

Possible Impacts

Unknown

What You Should Do

1. See the *Orphan Can* (on page 624) message.
2. Run the fix script when it is available.

Door or Window is missing its mating constraint

Message

Door or Window is missing its mating constraint.

Severity

Normal.

Detailed Description

A door or window creates an opening on a support when the default surface of the door or window has a mating constraint with the support (for example, a slab or wall). There is an error if the opening exists while the mating constraint is missing.

Possible Cause

Unknown.

Possible Impacts

The door or window will not recompute properly.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Delete the door or window.
5. Save the session.
6. Refresh all session files that have a workspace including the door or window.

Door or Window is missing its opening

Message

Door or Window is missing its opening.

Severity

Normal.

Detailed Description

A door or window creates an opening on a support when the default surface of the door or window has a mating constraint with the support (for example, a slab or wall). There is an error if the opening is missing while the mating constraint exists.

Possible Cause

When the door or window is pasted with its support, and the constraint is not re-evaluated, the software will not recompute the door or window. In that case, you must recompute the door or window to re-create the opening. Otherwise, the door or window should be deleted.

Possible Impacts

The door or window will not recompute properly.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Delete the door or window.
5. Save the session.

6. Refresh all session files that have a workspace including the door or window.

End frame connection missing a relation to the supporting member joint

Message

End frame connection missing a relation to the supporting member joint.

Severity

Crucial.

Detailed Description

An axis-end or axis-collinear frame connection is missing a relationship to the supporting member axis joint.

Possible Cause

Unknown.

Possible Impacts

Cannot properly copy an axis-end or axis-collinear connection when attempting to establish a new parent for the frame connection. For example, copying/pasting the supported member of a collinear connection along with the collinear frame connection will not provide you with the opportunity to choose the end of the supporting member system in which to establish the connectivity.

What You Should Do

The frame connection needs to be removed and re-created.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Locate the offending frame connection, and delete it from the model.
5. Select the member part, and then click the member **End** on the member ribbon to re-create the frame connection.
6. Change the frame connection type back to the axis-end/axis-collinear connection, and graphically select the supporting member to complete the frame connection modification.

Equipment foundation component does not have a relation to its parent

Message

Equipment foundation component does not have a relation to its parent.

Severity

Crucial.

Detailed Description

Equipment foundation component must have a relation to the equipment foundation (parent).

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Open the model.
3. Delete the object.
4. Save the session.

Equipment foundation exists without Equipment

Message

Equipment foundation exists without Equipment.

Severity

Crucial.

Detailed Description

The purpose of an Equipment foundation is to support equipment. So, there is no point of the existence of a foundation without equipment, and hence it is orphaned.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Open the model.
3. Delete the object.

Equipment foundation material is missing

Message

Equipment foundation material is missing.

Severity

Crucial.

Detailed Description

Every Equipment foundation must have one and only one related material that describes the material properties of the Equipment foundation.

Possible Cause

Unknown.

Possible Impacts

Any reports related to the material properties may fail.

What You Should Do

1. Open the model.
2. Select the equipment foundation, and click **Properties** on the ribbon.
3. Select the **Occurrence** tab.
4. In the **Material** box, choose a valid type.
5. Apply the properties, and exit the dialog box.

ErrorCode4 Cutout Not in Spatial Index

Message

ErrorCode4 Cutout Not in Spatial Index.

Severity

Crucial.

Detailed Description

The specified opening cannot be found in the Core Spatial Index Table and has no range values.

Possible Cause

Unknown.

Possible Impacts

A volume query does not select these openings, preventing them from being labeled or resymbolized on drawings.

What You Should Do

Execute the **ModelRepairCmd.OpeningWithoutRange** repair command.

Error code 103 - unspecified error description (Footings)

Message

Error code 103 - unspecified error description

Severity

High

Detailed Description

A footing exists but has no corresponding entry in the CoreSpatialIndex table

Possible Cause

A component based footing was placed in the previous version of the software.

Possible Impacts

Footing cannot be selected through the volume filters.

What You Should Do

Run the DBI script to correct these footings. The script accumulates the range of all of the footing's outputs and assigns it to the parent footing.

Error code 104 - unspecified error description (Foundations)

Message

Error code 104 - unspecified error description

Severity

High

Detailed Description

A foundation exists but has no corresponding entry in the CoreSpatialIndex table

Possible Cause

A component based foundation was placed in the previous version of the software.

Possible Impacts

Foundations cannot be selected through the volume filters.

What You Should Do

Run the DBI script to correct these foundations. The script accumulates the range of all of the foundation's outputs and assigns it to the parent foundation.

Footing component does not have a relation to its parent

Message

Footing component does not have a relation to its parent.

Severity

Normal.

Detailed Description

The footing component has lost its relationship to its parent footing, and is an "orphan" footing component.

Possible Cause

Failure to delete the component, because of a delay update or access restrictions during a workshare consolidation.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command to delete the footing components.

Footing material missing

Message

Footing material missing.

Severity

Crucial.

Detailed Description

Every footing must have a material associated for each of its components that describes the material properties of that footing component.

Possible Cause

For footings placed by the **Footing** command, this can happen if the catalog is edited to remove the specified material after the footing is placed.

Possible Impacts

Any reports related to the material properties may fail. For example, if no material is found, the weight is calculated using the approximate density of concrete (2400 kg/m³).

What You Should Do

1. Open the model.
2. Select the footing, and then click **Properties** on the ribbon.
3. Select the **Occurrence** tab.
4. In the **Material** box, choose a valid type.
5. Apply the properties, and then exit the dialog box.
6. If the problem is not resolved, make sure that the custom content is setting the material on the footing for each of its components, or directly on the footing component for the assembly footing type.

Footing without sufficient supporting members

Message

Footing without sufficient supporting members.

Severity

Crucial.

Detailed Description

For a single footing, the number of supporting members (inputs) must be one. For a combined footing, it must be two.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Open the model.
2. Delete the object.
3. Save the session.

Frame connection associated to more than one member part end port

Message

Frame connection associated to more than one member part end port.

Severity

Crucial.

Detailed Description

A frame connection should be associated to only one member part end port.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Select the offending frame connection.
5. On the ribbon, change the connection to **Unsupported**.
6. Then, on the ribbon, change the connection back to the original connection type.

Frame connection found that is unrelated to a member system

Message

Frame connection found that is unrelated to a member system.

Severity

Crucial.

Detailed Description

The lifetime of a frame connection is controlled by its member system; however, the frame connection did not get removed when the member system parent was deleted.

Possible Cause

Unknown.

Possible Impacts

None.

What You Should Do

Remove the offending frame connection.

1. Open the model.
2. Select the offending frame connection, and delete it.

Frame connection is missing its reference collection

Message

Frame connection is missing its reference collection.

Severity

Crucial.

Detailed Description

Frame connections are related to their supported members and supporting member via the reference collection. These relationships exist as specific types of relationships; however, a relationship exists to the Frame Connection across an unknown relationship.

Possible Cause

A custom frame connection was developed using an incorrect relationship between the member system and the frame connection reference collection.

Another possible cause for this error is if the frame connections were migrated from Version 4.0 of the software. In Version 4.0, more general relations were being used between the frame connection and the member systems. These relations, however, were converted to more specific relations in Version 4.1. It is possible the version migration did not convert these relations properly.

Possible Impacts

The frame connection will not compute properly when the member system is manipulated.

What You Should Do

Intergraph will need to review the data to see what the unknown relation is.

1. Ask your database administrator to back up the model.
2. Send the database backup to Intergraph Process, Power & Marine Support.

Frame connection missing its reference collection relation to the member system

Message

Frame connection missing its reference collection relation to the member system.

Severity

Crucial.

Detailed Description

A frame connection is not related to its parent member system.

Possible Cause

Unknown.

Possible Impacts

A number of problems will most likely occur; for example, you will be unable to graphically select the frame connection to get to the end of a member system.

What You Should Do

The frame connection needs to be removed and recreated.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Locate the offending frame connection, and delete it from the model.
5. Select the member part, and then click the member **End** on the member ribbon to re- create the frame connection.
6. Change the frame connection type back to the original connection type, and graphically select the supporting member to complete the frame connection modification.

Frame connection related to this position rule is not an AlignToPositionRule frame connection

Message

The frame connection related to this position rule is not an AlignToPositionRule frame connection.

Severity

Normal.

Detailed Description

The frame connection related to the position rule is not of the expected type.

Possible Cause

Unknown.

Possible Impacts

A constrained member will move, but will not align with the rule inputs. The constrained member is likely an unintended constraint.

What You Should Do

Modify the frame connection to change it to the correct type.

or

Use the **Clean** command to apply the repair script.

Frame connection without member part end port relation

Message

Frame connection without member part end port relation.

Severity

Crucial.

Detailed Description

Every frame connection should be associated to a member part end port. If this relationship is missing, it is a problem.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Select the offending frame connection.
5. On the ribbon, change the connection to **Unsupported**.
6. Then, on the ribbon, change the connection back to the original connection type.

Handrail exists without its geometry

Message

Handrail exists without its geometry.

Severity

Crucial.

Detailed Description

Handrail must have a relation with its input (geometry).

Possible Cause

Unknown.

Possible Impacts

Handrail becomes orphaned.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Locate and select the offending handrail, and delete it.

Handrail is not associated to HandrailAE

Message

Handrail is not associated to HandrailAE.

Severity

Crucial.

Detailed Description

Handrail does not have a relation to its active entity.

Possible Cause

Unknown.

Possible Impacts

The resultant object may not be visible in the graphic view. Modification of the resultant object is not possible.

What You Should Do

1. Open the model.
2. Select the resultant object in the **Workspace Explorer**.
3. Delete the object.

HandrailAE is not associated to Handrail

Message

HandrailAE is not associated to Handrail.

Severity

Crucial.

Detailed Description

HandrailAE is not associated to Handrail.

Possible Cause

Unknown.

Possible Impacts

Object becomes orphaned.

What You Should Do

Object needs to be removed. Please send Intergraph Process, Power & Marine Support the detailed error information for further analysis.

Invalid Knuckle type

Message

Invalid Knuckle type

Severity

Normal

Detailed Description

The Can's knuckle type is set to Ignore or Bend, which are not valid for a Can.

Possible Cause

The can failed to compute correctly.

Possible Impacts

Unknown

What You Should Do

1. Modify the plate knuckle and set the knuckle type to Split.
2. Run the fix script when it is available.

Invalid neighbor part count

Message

Invalid neighbor part count

Severity

Normal

Detailed Description

The Can rule split count does not match the neighbor part count.

Possible Cause

The can failed to compute correctly.

Possible Impacts

Unknown

What You Should Do

1. Verify the can location and ensure that the can does not span an existing split.
2. Run the fix script when it is available.

Invalid relation name for SlabToAssemblyConnection

Message

Invalid relation name for SlabToAssemblyConnection.

Severity

Fatal.

Detailed Description

The SlabAssemblyConnection's relationship name does not correctly identify the selected boundaries.

Possible Cause

On a slab, one boundary was replaced by another. For example, a slab member is replaced by a grid line.

Possible Impacts

The slab cannot be copied or pasted using the delete option.

What You Should Do

1. Open the model.
2. Run the **Clean Database** custom command to repair the relationship.

Joint found that is unrelated to a member system

Message

Joint found that is unrelated to a member system.

Severity

Normal.

Detailed Description

An Axis Joint provides the logical connectivity between one or more structural member systems. The lifetimes of the axis joints are controlled by the connected member systems; hence, when the last member system connected to one of these axis joints is deleted, the joint is also deleted.

For this error to occur, the axis joint was not removed when the last connected member system was removed.

Possible Cause

The axis joint should have been removed when:

- The last connected member system is removed.
- A member axis-along frame connection is modified to be an axis-end type frame connection causing two member systems to share a single axis joint.

Possible Impacts

This problem is benign and only indicates that the database contains data that needs to be removed.

What You Should Do

The axis joint is an internal object that cannot be manipulated directly through the user interface. The only action for this type of error is to force the deletion of this object via the provided **Clean Database** custom command.

Leg not split

Message

Leg not split

Severity

Normal

Detailed Description

A Can exists on a member system, but that member system is not split at the Can's location like it should be.

Possible Cause

The parent member system is read-only.

Possible Impacts

Unknown

What You Should Do

1. Verify that the person placing the can has permission to modify the member system leg.
2. Run the fix script when it is available.

Member end port associated to more than one Frame Connection

Message

Member end port associated to more than one Frame Connection.

Severity

Crucial.

Detailed Description

A member end port should be associated to only one frame connection. If the member end port has more than one related frame connection, it is a problem.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Select the offending frame connection.
5. On the ribbon, change the connection to **Unsupported**.
6. Then, on the ribbon, change the connection back to the original connection type.

Member part axis end port found with invalid properties

Message

Member part axis end port found with invalid properties

Severity

Crucial.

Detailed Description

An end port of a member part maintains whether it is a start or end port. The properties on this end port conflict with the start and end of the member part.

Possible Cause

Unknown.

Possible Impacts

This error would not typically cause any immediate problems; however, downstream activities such as analysis would not be predictable if there are two start ports.

What You Should Do

The only option is to remove the member part:

1. Open the model.
2. Delete the member part related to the problem end port.

Member part cutLength is zero

Message

Member part cutLength is zero.

Severity

High.

Detailed Description

A member part has a cut length less than or equal to zero.

Possible Cause

The member part or system was manipulated such that the part axis is zero in length. This problem could have been due to a direct manipulation of the end of the member part, making the start and end point coincident, or as a result of an indirect modification that forced the ends of the member part to be coincident.

Possible Impacts

Unknown.

What You Should Do

Remove the member part, or move the part such that its ends are no longer coincident.

1. Open the model.
2. Locate the offending member part, and move or modify it such that its end points are no longer coincident.

Member part does not have an attached cross section occurrence

Message

Member part does not have an attached cross section occurrence.

Severity

Crucial.

Detailed Description

Every member part must have only one related cross section occurrence that defines the projected profile for the initial solid geometry.

Possible Cause

In Version 4.0 of the software, a cross section services function was delivered that allows the ability to share the occurrence of an existing member part. This function is called **PlaceCrossSectionOccurrence**. By setting the third argument of this function to **False**, the developer can indicate that an existing cross section occurrence is to be used instead of creating a new one. The problem is that the developer cannot delete the cross section occurrence because it can (and will) delete the cross section occurrence out from under an existing member that shared the occurrence. This services function typically is used within hangers and supports, stairs, ladders, and handrail Visual Basic custom commands where the cross section was retrieved to produce a projection and then deleted.

Possible Impacts

The software cannot modify the member part that lost its cross section occurrence.

What You Should Do

There are two items to clean: (a) existing member parts (b) existing Visual Basic commands.

The steps to clean the existing member parts are:

1. Open the model.
2. Select the member part, and click **Properties** on the ribbon.
3. Select the **Cross Section** tab.
4. Choose a new cross section in the **Section Name** box (preferably a larger section of the same type as the original).
5. Click **Apply**.
6. Restore the section name property back to its original value by selecting it in the **Section Name** box.
7. Apply the properties, and exit the dialog box.

The steps to clean the VB commands to prevent this error from occurring again are:

1. Search all VB code for the function **PlaceCrossSectionOccurrence**.
2. For all located calls, change the third argument to **True**.
3. Verify that after the call to **PlaceCrossSectionOccurrence**, when you are done using the occurrence, you delete the occurrence from the database; otherwise, you will be leaving orphaned cross section occurrences in the database.
4. Rebuild your VB code.

Member part generator missing

Message

Member part generator missing.

Severity

High.

Detailed Description

The member part has an internal object called a generator that provides the functionality to construct the graphical part from the provided input axis and trim features. Having a member part without its generator would leave only the displayed member system and no graphical member part representation.

Possible Cause

Unknown.

Possible Impacts

No graphical manipulation of the member will be allowed.

What You Should Do

The member part needs to be removed.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Locate the offending member part, and delete it.

Member part has more than one attached cross section definition

Message

Member part has more than one attached cross section definition.

Severity

Normal.

Detailed Description

Every part has an indirect relationship to its cross section definition in the catalog that provides the basic properties of the section. If a part has more than one related definition, it is ambiguous as to which cross section definition to use.

Possible Cause

Unknown.

Possible Impacts

Most likely, the properties of the member part cannot be reviewed.

What You Should Do

Remove the offending member part.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Select the offending member part, and delete it.

Member part has more than one attached cross section occurrence

Message

Member part has more than one attached cross section occurrence.

Severity

Normal.

Detailed Description

Every member part has one cross section occurrence that defines the projected profile for the solid. A member part cannot have more than one cross section occurrence; otherwise, it is ambiguous as to which section to project along the axis to define the member part solid geometry.

Possible Cause

Unknown.

Possible Impacts

Any manipulation of the member part will fail.

What You Should Do

No action is required.

Member part has more than one material definition

Message

Member part has more than one material definition.

Severity

Medium.

Detailed Description

Every part may have one and only one material definition that defines the basic material properties of the member. If a part has more than one related definition, it is ambiguous as to which material definition to use.

Possible Cause

Unknown.

Possible Impacts

Unknown.

What You Should Do

No action is required.

Member part has no attached catalog cross section definition

Message

Member part has no attached catalog cross section definition.

Severity

Normal.

Detailed Description

Every member part must have only one related cross section that describes the cross section properties of the member part.

Possible Cause

Unknown.

Possible Impacts

Member property edit will fail.

What You Should Do

Follow these steps to clean the existing member parts.

1. Open the model.
2. Select the member part, and click **Properties** on the ribbon.
3. Select the **Cross Section** tab.
4. In the **Section Name** box, choose a section.
5. Apply the properties.

6. In the **Section Name** box, re-select the original cross section name.
7. Apply the properties, and exit the dialog box.

Member part has no attached material definition

Message

Member part has no attached material definition.

Severity

Normal.

Detailed Description

Every member part must have one and only one related material that describes the material properties of the member part.

Possible Cause

A member part can be constructed without a material definition; therefore, it is plausible that a custom command exists where a member part was created without assigning it a material definition.

Possible Impacts

Any reports related to the material properties will fail.

What You Should Do

There are two items to correct: (a) the member parts indicated by the DB integrity report that have missing material definitions, and (b) the Visual Basic macro that contains the code that creates a part without its material definition.

Here are the steps to clean the existing member parts:

1. Open the model.
2. Select the member part, and click **Properties** on the ribbon.
3. Select the **Cross Section** tab.
4. In the **Grade** box, choose a valid grade.
5. In the **Material** box, choose a valid type.
6. Apply the properties, and exit the dialog box.

To eliminate this problem from occurring again, locate the Visual Basic code that is allowing the member part to be created without a material. You will need to refer to the API help documentation as to the proper means of creating a member part and system and assigning the proper material and cross section. If you have no such code that is creating a member system, you will need to report the DB integrity problem to Intergraph Process, Power & Marine Support. A backup of your model will be needed to help determine the source of the problem.

Member part is missing a start or end port

Message

Member part is missing a start or end port.

Severity

High.

Detailed Description

Every member part has two end ports (one at the start and the other at the end). If one is missing, that is a problem.

Possible Cause

Unknown.

Possible Impacts

The software cannot establish assembly connections to the end of the member.

What You Should Do

Delete the offending member part.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Select the offending member part, and delete it.

Member part is missing its end ports

Message

Member part is missing its end ports.

Severity

High.

Detailed Description

Every member part has two end ports (one at the start and the other at the end). If one is missing, that is a problem.

Possible Cause

Unknown.

Possible Impacts

The software cannot establish an assembly connection to the end of the member part.

What You Should Do

Delete the offending member part.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Select the offending member part, and delete it.

Member part not attached to member part generator

Message

Member part not attached to member part generator.

Severity

High.

Detailed Description

A member system consists of one or more member parts. When the parts of a member system are missing, no graphic operation can occur on the member system.

Possible Cause

Unknown.

Possible Impacts

This member system has a database integrity problem and must be removed.

What You Should Do

Allow the delivered custom command to remove this member system.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Using the **Clean Database** custom command, remove this member system.

Member part solid geometry missing

Message

Member part solid geometry missing.

Severity

High.

Detailed Description

The solid geometry for the member part does exist.

Possible Cause

Unknown.

Possible Impacts

The member part will not display and is non-locatable.

What You Should Do

Delete the offending member part.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Locate and select the offending member part, and delete it.

Member system axis end port (at end) is related to more than one axis joint

Message

Member system axis end port (at end) is related to more than one axis joint.

Severity

Normal.

Detailed Description

The end of a member system can be related to only one axis joint. This axis joint defines the end location of the member system's logical axis.

Possible Cause

Unknown.

Possible Impacts

Any manipulation of the member system will fail.

What You Should Do

Remove the offending member system.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Select the offending member part, and delete it.

Member system axis end port (at start) is related to more than one axis joint

Message

Member system axis end port (at start) is related to more than one axis joint.

Severity

Normal.

Detailed Description

The start of a member system can be related to only one axis joint. This axis joint defines the start location of the member system's logical axis.

Possible Cause

Unknown.

Possible Impacts

Any manipulation of the member system will fail.

What You Should Do

Remove the offending member system.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Select the offending member system, and delete it.

Member system can be point on to only one member system

Message

Member system can be point on to only one member system.

Severity

Normal.

Detailed Description

A member is allowed to be point onto another member, a surface, a point, a line, and so forth. However, one end of a member cannot be point onto more than one object.

Possible Cause

Unknown.

Possible Impacts

Modification of the offending member or the objects that it is point onto may cause the modification to falter and abort prematurely.

What You Should Do

The offending member needs to be removed.

1. Open the model.
2. Delete the offending member system.

Member system end port found with invalid properties

Message

Member system end port found with invalid properties.

Severity

Crucial.

Detailed Description

The member system consists of three types of end ports: start, end, and along ports. The properties on the indicated port noted in the DB integrity script have inconsistent properties with how it is connected to the member system (the end port is related to the start of the member system, but the port indicates it is not at the start of the member system).

Possible Cause

Unknown.

Possible Impacts

Potentially, this situation could cause problems later in the workflow such as during analysis when the member system and parts are broken down into analytical elements.

What You Should Do

To correct this problem, the only recourse is to remove the member system that contains the bad port.

1. Open the model.
2. Select and delete the indicated member system with the bad port.

Member system exists without any member parts

Message

Member system exists without any member parts.

Severity

High.

Detailed Description

The member system cannot exist without a member part, which provides the physical geometry for display and locate.

Possible Cause

Unknown.

Possible Impacts

The member part is broken beyond recovery so any manipulation of the system will fail.

What You Should Do

Delete the offending member system.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Select the offending member system, and delete it.

Member system is missing a start or end port

Message

Member system is missing a start or end port.

Severity

High.

Detailed Description

Every member system has two end ports (one at the start and the other at the end). If one is missing, that is a problem.

Possible Cause

Unknown.

Possible Impacts

The software cannot connect other member systems to the end of the member.

What You Should Do

Delete the offending member system.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Select the offending member system, and delete it.

Member system is missing its attached wirebody

Message

Member system is missing its attached wirebody.

Severity

High.

Detailed Description

The logical axis of a member system is described by a wirebody. The relation to the wirebody table is missing; hence, the member system does not have a logical axis and is incomplete.

Possible Cause

Unknown.

Possible Impacts

The software cannot manipulate the member system or part.

What You Should Do

Delete the offending member system.

1. Open the model.
2. Locate and select the offending member system, and delete the object.

Member system is missing its end ports

Message

Member system is missing its end ports.

Severity

High.

Detailed Description

Every member system has two end ports (one at the start and the other at the end). If one is missing, that is a problem.

Possible Cause

Unknown.

Possible Impacts

The software cannot connect other members to the ends of the member system.

What You Should Do

Delete the offending member system.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Select the offending member system, and delete it.

Member system missing one or more frame connections

Message

Member system missing one or more frame connections.

Severity

Normal.

Detailed Description

Every member system has a start and end frame connection. The lifetimes of these frame connections are controlled by the member system; hence, you cannot eliminate an end frame connection unless you delete the member system. Therefore, a member system without a frame connection should not occur.

Possible Cause

Before Version 5 of the software, member systems without frame connections were allowed. Therefore, a migrated model can result in these messages. For a non-migrated model, this situation is abnormal and should not occur.

Possible Impacts

Commands that select a frame connection are affected. Examples of these commands include placement of members at the end of a member, assembly connection placement on a member system, and placement of analysis boundary conditions.

What You Should Do

To re-establish the connectivity of a frame connection, you can complete a manual process, or run a custom database command.

★IMPORTANT Before fixing this problem, you must have write access to the permission group of the member system. Frame connections always exist beneath the permission group of the member system. A new frame connection can only be generated if you have access to the member.

Manual Solution

1. Select the member system.
2. Click the **Start** and **End** frame connection buttons on the ribbon. The software creates new frame connections.

Automated Solution

1. Run the **Clean Database** custom command.
2. Select the member system(s) in error, and click **Clean Now**. The software creates new unsupported frame connections.

Member system Type property cannot be 0

Message

Member system Type property cannot be 0.

Severity

High.

Detailed Description

The type property on the member system has not been set. This property varies with the type category on the member. For example, a member system with type category of Beam would have a type of Beam, Purlin, Girder, Girt, or Joist.

Possible Cause

The likely cause of this error is that a custom command was written to place a member system, and the type property was not set on the member system.

Possible Impacts

Without the type property, any member system that attempts to connect to this member system will not establish the appropriate frame connection when the connection is By Rule.

What You Should Do

Manually update the member system type property.

1. Open the model.
2. Select the member system part.
3. On the ribbon, select the appropriate member type property.

Member system TypeCategory property cannot be 0

Message

Member system TypeCategory property cannot be 0.

Severity

High.

Detailed Description

The type category property on the member system has not been set. This property should have a value of Beam, Column, or Brace.

Possible Cause

The likely cause of this error is that a custom Visual Basic command/macro was written to place a member system, and the type category property was not set when the member system was created.

Possible Impacts

Without the type category property set on the member system, any member system that connects to this member system may not establish the correct frame connection when connection is By Rule.

What You Should Do

Manually update the member system's part type category property.

1. Open the model.
2. Select the indicated member system part.
3. On the member part ribbon, select a type category.

Mismatched relations

Message

Mismatched relations

Severity

Normal

Detailed Description

The Can Rule is input to a Frame Connection whose Member System is not a contributing member of the Can Rule, or the Can Rule has a contributing member that has no Frame Connection in relation to the Can Rule.

Possible Cause

The can failed to compute correctly.

Possible Impacts

Unknown

What You Should Do

1. Modify the can and remove the transverse member. Then add the transverse member back to the can.
2. Run the fix script when it is available.

Missing Knuckle

Message

Missing Knuckle

Severity

Normal

Detailed Description

The Can specifies that a cone exists, but there is no plate knuckle.

Possible Cause

A compute was delayed or the can data is out of date in the Catalog.

Possible Impacts

Unknown

What You Should Do

1. Verify that the plate surface is knuckled.
2. Verify that the can and all the related objects are not on the To Do List.
3. Run the fix script when it is available.

More than one assembly connection is attached to the end port of a member part

Message

More than one assembly connection is attached to the end port of a member part.

Severity

Crucial.

Detailed Description

A member part may have only one assembly connection related to a given end of the member part because more than one assembly connection would compete for how the end of the member part is trimmed.

Possible Cause

Unknown.

Possible Impacts

The software will not allow more than one assembly connection to be connected to an end port of a member part. If this situation ever occurs, the last placed assembly connection will be disabled and its connectivity to the supported/supporting member systems will be severed. Therefore, the offending assembly connection should exist in the To Do List and is harmless to the existing data model.

What You Should Do

Remove the offending assembly connection.

1. Open the model.
2. Select the assembly connection, and delete it.

No frame connection found on end of member system

Message

No frame connection found on end of member system.

Severity

Normal.

Detailed Description

Each member system must have a start and an end frame connection. The lifetimes of these frame connections are controlled by the member system; hence, you cannot eliminate an end frame connection unless you delete the member system. Therefore, a member system without a frame connection should not exist.

Possible Cause

Before Version 5, member systems without frame connections were allowed. Therefore, a migrated model can result in this situation. For a non-migrated model, this situation is abnormal and should not occur.

Possible Impacts

Commands that select a frame connection are affected. Examples of these commands include placement of members at the end of a member, placement of an assembly connection on a member system, and placement of analysis boundary conditions.

What You Should Do

To re-establish the connectivity of a frame connection, you can complete a manual process, or run a custom database command.

★ IMPORTANT Before fixing this problem, you must have write access to the permission group of the member system. Frame connections always exist beneath the permission group of the member system. A new frame connection can only be generated if you have access to the member.

Manual Solution

1. Select the member system part.
2. On the ribbon, click the **Start** and **End** frame connection buttons to create new frame connections.

Automated Solution

1. Run the **Clean Database** custom command.
2. Select the member system(s) in error, and click **Clean Now**. The software creates new unsupported frame connections.

Object not in the same permission group as its parent

Message

Object not in the same permission group as its parent.

Severity

High.

Detailed Description

This internal object should inherit its permission group from its parent; however, the permission group does not match its parent's permission group.

Possible Cause

This problem is caused by a structural member part's failure to propagate to the graphic part generator or to its cross- section occurrence.

Possible Impacts

You might not be able to modify a structural member because the permission group of the secondary graphic part generator may not allow the manipulation of the member part graphics.

What You Should Do

Because the object is an internal object, it cannot be manipulated directly through the user interface. The best action for this type of error is to invoke the **Clean Database** custom command to correct the inconsistency.

One or more outputs of a Designed Member exist in a different Permission Group

Message

One or more outputs of a Designed Member exist in a different Permission Group.

Severity

Medium

Detailed Description

The child plates that constitute the designed member are in a different permission group than the parent designed member object.

Possible Cause

You should only see this on a migrated database (before the fix for TR 167167, v08.01.36.0002 and earlier) if you changed the permission group of a designed member and then split that member. In that case, the new designed members will be in the correct permission group, but the plates will be in the active permission group.

Possible Impacts

Future modifications to the designed member or the plate systems could fail if you do not have access to the plate system permission group.

What You Should Do

Run the repair command written for the message. The command will set the permission group of the plates to the one specified for the designed member.

Alternatively, you can simply change the permission group of a designed member and then change it back to the original. This modification will trigger the permission group propagation so that the plates and designed members will reside in the same permission group.

Opening without any OpeningType relation

Message

Opening without any OpeningType relation

Severity

Crucial.

Detailed Description

An Opening has no relation to an OpeningType object which defines some particular properties for the Opening; for example, Cutting Limit.

Possible Cause

Copying/Pasting an Opening.

Possible Impacts

At edit time, an Opening which does not go through all of the structure on which it is applied will not have the correct Cutting Limit value ("Through All" instead of "User Defined").

What You Should Do

Use the **Clean** command to apply the repair script.

Orphan can

Message

Orphan can

Severity

Normal

Detailed Description

A rule based Can exists in the model, but there is no corresponding Can rule.

Possible Cause

A delete of the can failed.

Possible Impacts

Unknown

What You Should Do

1. Delete the can.
2. Run the fix script when it is available.

Orphan can rule

Message

Orphan can rule

Severity

Normal

Detailed Description

A Can rule exists, but there is no corresponding Can in the model.

Possible Cause

A deletion of the can failed.

Possible Impacts

Unknown

What You Should Do

1. Contact Intergraph Support.
2. Run the fix script when it is available.

Orphaned Cross section symbol occurrences having no relationships to any objects

Message

Orphaned Cross section symbol occurrences having no relationships to any objects.

Severity

Normal.

Detailed Description

Symbol occurrence objects in the database are orphaned as they do not have any relationships to the objects that created them.

Possible Cause

Some custom symbol objects that create cross section occurrences do not delete the occurrences after they have been used for creating projections. An example is in user symbol macros such as Stairs/Handrails that use the function PlaceCrossSectionOccurrence from CrossSectionServices in the SP3DStructGenericTools library.

Possible Impacts

Software performance degrades with a large number of these objects.

What You Should Do

1. Ask your database administrator to back up the model.
2. Send the database backup to Intergraph Process, Power & Marine Support.
3. Execute the **Clean Database** custom command to remove these objects.

★ **IMPORTANT** User symbol macro source code that calls the function **PlaceCrossSectionOccurrence** must ensure that occurrences are deleted when the symbol code does not need the occurrences anymore. In the existing source code, look for instances where an occurrence is created. The function call has the third argument set as True (meaning that a new occurrence will be created). For example:

```
CrosssectionService.PlaceCrossSectionOccurrence (ResourceManager,  
CatalogDef, True, CSProfile)  
' Code to use the occurrence to create projections  
' then the CSProfileObj needs to be deleted as follows  
Dim obj As IJDObject  
Set obj = CSProfileObj  
obj.Remove
```

Orphaned structure member part along port

Message

Orphaned structure member part along port.

Severity

Normal.

Detailed Description

Whenever an assembly connection is placed along a supporting member, a relationship is established to the supported member via an along port on the member. When this error occurs, the along port of a part exists without its parent member part existing.

Possible Cause

Deleting a member part failed to propagate the delete operation to the along port, or it could be a permission problem where the object connected to the along port propagated a non-working status permission to the port such that it could not be deleted.

Possible Impacts

None.

What You Should Do

Run the delivered custom command to remove the offending port.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Execute the **Clean Database** custom command to remove the port.

Orphaned structure member part end port

Message

Orphaned structure member part end port.

Severity

Normal.

Detailed Description

Every member part has two end ports related to it (the end port at the start of the member and the end port at the end of the member). When the member part was deleted, one of the end ports was not deleted along with the member part.

Possible Cause

Deleting a member part failed to propagate the delete operation to one or more of its end ports.

Possible Impacts

None.

What You Should Do

Run the delivered custom command to remove the offending port.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Execute the **Clean Database** custom command to remove the port.

Orphaned structure member system end port

Message

Orphaned structure member system end port.

Severity

Normal.

Detailed Description

Every member system has two end ports related to it (the end port at the start of the member system and the end port at the end of the member system). When the member system was deleted, one of the end ports was not deleted along with the member system.

Possible Cause

Deleting a member system failed to propagate the delete operation to one or more of its end ports.

Possible Impacts

None.

What You Should Do

Run the delivered custom command to remove the offending port.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Execute the **Clean Database** custom command to remove the port.

Port face selector is missing its root contour

Message

Port face selector is missing its root contour.

Severity

High.

Detailed Description

A port face selector is an internal intermediary object between a structural slab and one of its bounding structural members.

A root contour is an internal object and a parent of a port face selector but also a parent of a structural slab.

Possible Cause

The root contour has been deleted either by an unknown operation or by self-destruction triggered when all of its geometrical parents were deleted.

Alternatively, the relationship between port face selector and its root contour has been deleted for an unknown reason.

Possible Impacts

The slab limited by this member will not correctly evaluate boundary offsets.

What You Should Do

Because this object is internal, there is nothing that you can do directly.

Port face selector is missing its source object

Message

Port face selector is missing its source object.

Severity

High.

Detailed Description

A port face selector is an internal intermediary object between a structural slab and one of its bounding structural members.

Currently, the source object of a port face selector is limited to a structural member.

Possible Cause

The source object has been deleted, but this delete operation was not propagated to the port face selector. Or, the relationship between the port face selector and its source object was deleted for an unknown reason.

Possible Impacts

The slab limited by this member will not correctly evaluate boundary offsets.

What You Should Do

Because this object is internal, there is nothing that you can do directly.

Port face selector root contour is not unique

Message

Port face selector root contour is not unique.

Severity

High.

Detailed Description

A port face selector is an internal intermediary object between a structural slab and one of its bounding structural members.

A root contour is an internal object and a parent of a port face selector but also a parent of a structural slab.

If a port face selector's root contour is not unique, this demonstrates a serious problem.

Possible Cause

A relationship between a port face selector and its root contour is instantiated more than one time, which can be the result of an automation problem or a copy and paste problem.

Possible Impacts

The slab limited by this member will not correctly evaluate boundary offsets.

What You Should Do

Because this object is internal, there is nothing that you can do directly.

Port face selector source object is not unique

Message

Port face selector source object is not unique.

Severity

High.

Detailed Description

A port face selector is an internal intermediary object between a structural slab and one of its bounding structural members.

Currently, the source object of a port face selector is limited to a structural member.

Possible Cause

A relationship between a port face selector and its source object is instantiated more than one time, which can be the result of an automation problem or a copy and paste problem.

Possible Impacts

The slab limited by this member will not correctly evaluate boundary offsets.

What You Should Do

Because this object is internal, there is nothing that you can do directly.

Position rule has more than one axis joint relation

Message

The position rule has more than one axis joint relation.

Severity

Normal.

Detailed Description

Two or more axis joints are constrained to the same position rule.

Possible Cause

Unknown.

Possible Impacts

Unintended constraint of a member system.

What You Should Do

Use the **Clean** command to apply the repair script and remove all but the first relationship.

Position rule has more than one frame connection relation

Message

The position rule has more than one frame connection relation.

Severity

Normal.

Detailed Description

Two or more frame connections are constrained to the same position rule.

Possible Cause

Unknown.

Possible Impacts

Unintended constraint of a member system.

What You Should Do

Use the **Clean** command to apply the repair script and remove all but the first relationship.

Position rule is missing a relation to an axis joint or a frame connection

Message

The position rule is missing a relation to its axis joint and frame connection.

Severity

Normal.

Detailed Description

A position rule is related to only one of two expected objects.

Possible Cause

Unknown.

Possible Impacts

Members constrained to the position rule may not respond properly to model changes.

What You Should Do

Use the **Clean** command to apply the repair script and fix the missing relationship.

Position Rule is missing inputs

Message

The position rule is missing inputs.

Severity

Normal.

Detailed Description

A position rule exists but has no inputs.

Possible Cause

Unknown.

Possible Impacts

The rule does not recompute or change location.

What You Should Do

Use the **Clean** command to apply the repair script and delete the position rule.

Position rule is missing the relations to its axis joint and frame connection

Message

The position rule is missing the relations to its axis joint and frame connection.

Severity

Normal.

Detailed Description

An orphan position rule exists in the database.

Possible Cause

Delete propagation failure.

Possible Impacts

Slight performance impact caused by computation of an unneeded object.

What You Should Do

Use the **Clean** command to apply the repair script and delete the orphan position rule.

Reference collection for a FrameConnection uses unexpected relation

Message

Reference collection for a FrameConnection uses unexpected relation.

Severity

Normal.

Detailed Description

A relationship exists to the frame connection reference collection that is not one of the well-known relations (such as the relations between the end ports of the supported/supporting member systems and the frame connection).

Possible Cause

More generalized relations were used in Version 4.0 of the software; hence, the version migration may not have migrated one of these relations correctly.

Possible Impacts

No visible problems will occur.

What You Should Do

Forcing the connection type to unsupported and then back to its original connection type will correct the problem.

1. Open the model.
2. Select the offending frame connection, and change it to **Unsupported**.

3. Change the offending frame connection back to its original connection type. You must graphically re-identify the supporting member to which to reconnect.

Reference Collection for an unsupported Frame Connection contains more than one element

Message

Reference Collection for an unsupported Frame Connection contains more than one element.

Severity

Normal.

Detailed Description

A relationship exists to the reference collection of a frame connection. Specific relationships have been defined to the frame connection; however, in this instance, a generic reference collection relationship exists.

Possible Cause

In Version 4.0 of the software, several of the relationships to the frame connection were generalized relations; however, in Version 4.1, all these relationships were made more specific. Therefore, if this error occurs, it is likely that the version migration of the frame connection did not perform properly.

Possible Impacts

Frame connections reported with this error may not copy properly if the reported frame connection is an axis-end or axis-collinear type frame connection.

What You Should Do

Force the software to re-compute the frame connection.

1. Open the model.
2. Select the frame connection, and change its type to **Unsupported**.
3. Select the frame connection again, and restore the frame connection type back to its original value (which will force the graphic selection of the supporting member).

Slab entity catalog type reference is not unique

Message

Slab entity catalog type reference is not unique.

Severity

High.

Detailed Description

The catalog type of a slab entity (the slab shown in the **Workspace Explorer**) is not unique anymore.

Possible Cause

A relationship between a slab entity and its catalog type is instantiated more than one time, which can be the result of an automation problem or a copy and paste problem.

Possible Impacts

The slab entity is either in error or has a database integrity problem.

What You Should Do

1. Open the model.
2. Locate the offending slab, and re-create it.

Slab entity composition reference is not unique

Message

Slab entity composition reference is not unique.

Severity

High.

Detailed Description

The composition type of a slab entity (the slab shown in the **Workspace Explorer**) composition type is not unique anymore.

Possible Cause

A relationship between a slab entity and its catalog is instantiated more than one time, which can be the result of an automation problem or a copy and paste problem.

Possible Impacts

The slab entity is either in error or has a database integrity problem.

What You Should Do

1. Open the model.
2. Locate the offending slab, and re-create it.

Slab entity is missing its catalog type reference

Message

Slab entity is missing its catalog type reference.

Severity

High.

Detailed Description

The catalog type of a slab entity (the slab shown in the **Workspace Explorer**) does not match a catalog entry anymore.

Possible Cause

The catalog type is not available in the catalog.

Possible Impacts

The slab entity is either in error or has a database integrity problem.

What You Should Do

1. Open the model.
2. Locate the offending slab, and select a type from the **Type** dropdown list on the ribbon.

Slab entity is missing its composition

Message

Slab entity is missing its composition.

Severity

High.

Detailed Description

The composition relationship of a slab entity (the slab shown in the **Workspace Explorer**) does not exist anymore.

Possible Cause

The composition relationship or all slab layers have been deleted for an unknown reason.

Possible Impacts

The slab entity is either in error or has a database integrity problem.

What You Should Do

1. Open the model.
2. Locate the offending slab, and select a type from the **Composition** dropdown list on the ribbon.

Slab entity is missing its composition reference

Message

Slab entity is missing its composition reference.

Severity

High.

Detailed Description

The composition of a slab entity (the slab shown in the **Workspace Explorer**) does not match a catalog entry anymore.

Possible Cause

The composition is not available in the catalog anymore.

Possible Impacts

The slab entity is either in error or has a database integrity problem.

What You Should Do

1. Open the model.
2. Locate the offending slab, and select a type from the **Composition** dropdown list on the ribbon.

Slab layer catalog type reference is not unique

Message

Slab layer catalog type reference is not unique.

Severity

High.

Detailed Description

The slab layer catalog type is not unique anymore.

Possible Cause

A relationship between a slab layer and its catalog is instantiated more than one time, which can be the result of an automation problem or a copy and paste problem.

Possible Impacts

The slab entity is either in error or has a database integrity problem.

What You Should Do

This error can be resolved by correcting the database integrity error message for the related slab entity.

Slab layer composition is not unique

Message

Slab layer composition is not unique.

Severity

High.

Detailed Description

The slab layer composition is not unique anymore.

Possible Cause

A relationship between a slab layer and its slab entity is instantiated more than one time, which can be the result of an automation problem or a copy and paste problem.

Possible Impacts

The slab entity is either in error or has a database integrity problem.

What You Should Do

This error can be resolved by correcting the database integrity error message for the slab entity.

Slab layer is missing its catalog type reference

Message

Slab layer is missing its catalog type reference.

Severity

High.

Detailed Description

The slab layer catalog type does not match a catalog entry anymore.

Possible Cause

The catalog type is not available in the catalog anymore.

Possible Impacts

The slab entity is either in error or has a database integrity problem.

What You Should Do

This error can be resolved by correcting the database integrity error message for the slab entity.

Slab layer is missing its composition

Message

Slab layer is missing its composition.

Severity

High.

Detailed Description

The slab layer composition relationship does not exist anymore.

Possible Cause

The composition relationship or slab entity has been deleted for an unknown reason.

Possible Impacts

The slab layer is orphaned.

What You Should Do

The slab layer is an internal object that cannot be manipulated directly through the user interface. The only action for this type of error is to force the deletion of this object using the provided **Clean Database** custom command.

Slab with duplicate boundary index

Message

Slab with duplicate boundary index.

Severity

Fatal

Detailed Description

A slab with a duplicate boundary index is found. One of the boundaries is unneeded.

Possible Cause

Unknown.

Possible Impacts

The slab remains in place after MDR with move.

What You Should Do

Delete and then remodel the corrupted slab.

Slab Without Any Slab Assembly Connection

Message

Slab Without Any Slab Assembly Connection

(Codelist Number 95 in SPSCodelists.xls:: SPSTDBIntegrityMessages).

Severity

Crucial.

Detailed Description

No slab assembly connections are visible under the slab in the Workspace Explorer. This means the slab assembly connections are no longer in the database.

Possible Cause

All the slab's assembly connections have been interactively deleted.

Possible Impacts

The slab is missing key data and must be manually repaired to work as it was originally expected to for operations such as **Copy**, **Move**, and **Mirror**.

What You Should Do

Edit the slab and go to the **Boundaries** step:

If the slab does not have boundaries:

1. Select new boundaries.
2. Click the green checkmark or **Finish** to regenerate the slab's assembly connections.

If the slab does have boundaries:

1. De-select one boundary.
2. Select another object as the new specific boundary (a nearby grid line, for example).

3. Click the green checkmark or **Finish**.

Repeat these steps for each boundary to regenerate slab assembly connections.

NOTE If re-allocating boundaries does not correct the problem, the slab must be re-modeled.

Slab Without Supporting Object

Message

Slab Without Supporting Object

(Codelist Number 96 in SPSCodelists.xls:: SPsDBIntegrityMessages)

Severity

Crucial.

Detailed Description

No object is supporting the slab. To continue working, the slab keeps a local copy of the support information; however, this means that the slab may no longer work as originally expected in operations such as **Copy**, **Mirror**, and **Move**.

Possible Cause

The object supporting the slab has been deleted.

Possible Impacts

The slab must be manually repaired because it does not have all the support information it needs to function correctly.

What You Should Do

1. Edit the slab.
2. Go to the Support step and select new support inputs.

These inputs will depend on what Plane Method was used to place the Slab (Coincident, Plane by # Points, and so forth).

NOTE If selecting a new support does not correct the problem, then the slab will have to be re-modeled.

Stair or Ladder has more than one related bottom plane

Message

Stair or Ladder has more than one related bottom plane.

Severity

Normal.

Detailed Description

A stair or ladder has multiple relationships to the bottom plane. The location of the stair or ladder depends on the inputs; therefore, more than one input would make the location of the ladder ambiguous.

Possible Cause


Unknown.

Possible Impacts

It is highly likely that one would not even notice a problem with the behavior of the ladder or stair because the first encountered input would be used, and any additional inputs would be ignored. However, it is plausible that if any of the inputs get modified, the ladder could compute its location based off a different input. The ladder would seem to move around unpredictably.

What You Should Do

Manually update the ladder or stair.

1. Ask your database administrator to back up the model.
2. Send the database backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Select the ladder or stair.
5. On the ribbon, click **Select Bottom Plane** .
6. In a graphic view, select a new bottom plane for the stair or ladder.
7. Click **Finish** on the ribbon.

Stair or Ladder has more than one related reference plane or edge

Message

Stair or Ladder has more than one related reference plane or edge.

Severity

Normal.

Detailed Description

A stair or ladder has multiple relationships to a reference edge or plane. The location of the stair or ladder depends on the inputs; therefore, more than one input would make the location of the ladder ambiguous.

Possible Cause


Unknown.

Possible Impacts

It is highly likely that one would not even notice a problem with the behavior of the ladder or stair because the first encountered input would be used, and any additional inputs would be ignored. However, it is plausible that if any of the inputs get modified, the ladder could compute its location based off a different input. The ladder would seem to move around unpredictably.

What You Should Do

Manually update the ladder or stair.

1. Ask your database administrator to back up the model.
2. Send the database backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Select the ladder or stair.
5. On the ribbon, click **Select Reference Edge** .
6. In a graphic view, select a new reference edge for the stair or ladder.
7. Click **Finish** on the ribbon.

Stair or Ladder has more than one related top plane or edge

Message

Stair or Ladder has more than one related top plane or edge.

Severity

Normal.

Detailed Description

A stair or ladder has multiple relationships to the top plane or edge. The location of the stair or ladder depends on the inputs; therefore, more than one input would make the location of the ladder ambiguous.

Possible Cause


Unknown.

Possible Impacts

It is highly likely that one would not even notice a problem with the behavior of the ladder or stair because the first encountered input would be used, and any additional inputs would be ignored. However, it is plausible that if any of the inputs get modified, the ladder could compute its location based off a different input. The ladder would seem to move around unpredictably.

What You Should Do

Manually update the ladder or stair.

1. Ask your database administrator to back up the model.
2. Send the database backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Select the ladder or stair.
5. On the ribbon, click **Select Top Edge** .
6. In a graphic view, select a new top edge for the stair or ladder.
7. Click **Finish** on the ribbon.

Stair or Ladder is missing its bottom supporting plane

Message

Stair or Ladder is missing its bottom supporting plane.

Severity

Normal.

Detailed Description

A stair or ladder has relationships to its inputs: top edge, bottom plane, and an optional reference edge. The location of the stair or ladder depends on these inputs; therefore, if any one of the inputs is missing (bottom plane), the stair or ladder is orphaned.

Possible Cause

Deleting the original bottom plane geometry causes the stair or ladder to go to the To Do List, indicating the bottom reference plane is missing. As long as the stair or ladder remains on the To Do List, this error is not reported; however, if for some reason, the To Do List record is removed, then this problem is reported.

Possible Impacts

The stair or ladder will not recompute its size or position when its referenced geometry moves.

What You Should Do

Manually update the ladder or stair.

1. Open the model.
2. Select the ladder or stair.
3. On the ribbon, click **Select Bottom Plane** .
4. In a graphic view, select a new bottom plane for the stair or ladder.

5. Click **Finish** on the ribbon.

Stair or Ladder is missing its top supporting plane or edge

Message

Stair or Ladder is missing its top supporting plane or edge.

Severity

Normal.

Detailed Description

A stair or ladder has relationships to its inputs: top edge, bottom plane, and an optional reference edge. The location of the stair or ladder depends on these inputs; therefore, if any one of inputs is missing (top plane/edge), the stair or ladder is orphaned.

Possible Cause


Deleting the original top reference edge geometry causes the stair or ladder to go to the To Do List, indicating the top edge is missing. As long as the stair or ladder remains on the To Do List, this error is not reported; however, if for some reason, the To Do List record is removed, then this problem is reported.

Possible Impacts

The stair or ladder will not recompute its size or position when its referenced geometry moves.

What You Should Do

Manually update the ladder or stair.

1. Open the model.
2. Select the ladder or stair.
3. On the ribbon, click **Select Top Edge** .
4. In a graphic view, select a new top edge for the stair or ladder.
5. Click **Finish** on the ribbon.

Stair or Ladder is not associated to its AE

Message

Stair or Ladder is not associated to its AE.

Severity

Crucial.

Detailed Description

A stair or ladder does not have a relation to its active entity (AE).

Possible Cause

Unknown.

Possible Impacts

The resultant object may not be visible in the graphic view. Modification of the resultant object is not possible.

What You Should Do

1. Open the model.
2. Select the resultant object in the **Workspace Explorer**.
3. Delete the object.

StairAE is not associated to Stair or Ladder

Message

StairAE is not associated to Stair or Ladder.

Severity

Crucial.

Detailed Description

StairAE is not associated to Stair or Ladder.

Possible Cause

Unknown.

Possible Impacts

Object becomes orphaned.

What You Should Do

Object needs to be removed. Please send Intergraph Process, Power & Marine the detailed error information for further analysis.

Structure SmartOcc related objects with missing flavor relation

Message

Structure SmartOcc related objects with missing flavor relation.

Severity

Crucial.

Detailed Description

Every Structure SmartOccurrence has a relation between its flavor occurrence and the flavor for its selector logic. The majority of structure objects have a dummy selector; hence, if this relation is missing, it can be re-established if a similar flavor is found. This script detects such cases and provides a repair action that can be run against the database. You can run the repair with the **Clean Database** custom command.

Possible Cause

Not known.

Possible Impacts

This is only a detection script; hence, there is no known impact.

What You Should Do

To re-establish the connectivity for dangling flavor relations, you can run the **Clean Database** custom command. Select the entry for SmartPlantStructureUpdateDanglingFlavorRIns.sql, and click **Clean Now**. The software re-establishes the missing flavor relations for the structure SmartOcc dangling flavors.

Surface frame connection is missing its reference collection relation to the surface

Message

Surface frame connection is missing its reference collection relation to the surface.

Severity

High.

Detailed Description

A surface-default frame connection is not related to a surface or plane.

Possible Cause

Unknown.

Possible Impacts

The member system will not move with the movement of the surface or plane to which it was originally attached.

What You Should Do

The frame connection needs to be modified.

1. Ask your database administrator to back up the model.
2. Supply all information possible that may have led to this situation, and submit this information along with the backup to Intergraph Process, Power & Marine Support.
3. Open the model.
4. Locate the offending frame connection, and change it to an unsupported frame connection type.
5. Change the frame connection back to a surface-default connection type, and graphically select the surface to which to connect.

Wrong reference collection relation to member for end port @end

Message

Wrong reference collection relation to member for end port @end.

Severity

Crucial.

Detailed Description

The relationship between the reference collection of a frame connection and the member end port is inconsistent with the connected end port (the frame connection is related to the member system end port, but the notification relationship is to the start of the member system).

Possible Cause

The Visual Basic frame connection macro that established the relationship has a problem. The relationship to the end port should be consistent with the end port properties.

Possible Impacts

The frame connection may not compute properly when the supporting member end is manipulated.

What You Should Do

1. Ask your database administrator to back up the model.
2. Send the database backup to Intergraph Process, Power & Marine Support.

Wrong reference collection relation to member for end port @start

Message

Wrong reference collection relation to member for end port @start.

Severity

Crucial.

Detailed Description

The relationship between the reference collection of the frame connection and the member end port is inconsistent with the connected end port (the frame connection is related to the member system start port, but the notification relationship is to the end of the member system).

Possible Cause

The Visual Basic frame connection macro that established the relationship has a problem. The relationship to the start port should be consistent with the properties of the member port.

Possible Impacts

The frame connection may not compute properly when the supporting member end is manipulated.

What You Should Do

1. Ask your database administrator to back up the model.
2. Send the database backup to Intergraph Process, Power & Marine Support.

SECTION 29

Systems and Specifications

This section contains Systems and Specifications database integrity messages.

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Missing relationship for Correlated object

Message

Missing relationship for Correlated object.

Severity

High.

Detailed Description

A required EFWCorrelationToSP3D relationship is missing from an area system, unit system, or pipeline.

Possible Cause

The area system, unit system, or pipeline was created using a pre-V7 version of Smart 3D.

Possible Impacts

Area systems, unit systems, or pipelines that are missing the EFWCorrelationToSP3D relationship cannot be correlated to objects in P&ID or PBS documents.

What You Should Do

1. Open the model.
2. Click **Tools > Custom Commands**.
3. Run the **Clean Database** custom command.
4. On the **Clean Database** dialog box, select the objects with this problem description.
5. Click **Clean Now**. This operation creates the missing EFWCorrelationToSP3D relationships.

6. Close the **Clean Database** dialog box.

Object does not have a parent

Message

Object does not have a parent.

Severity

High.

Detailed Description

A child object has no parent/child relationship with a parent object.

Possible Cause

A serious and unexpected error has occurred, likely while changing the child object's parent.

Possible Impacts

The child object will not appear in the **Workspace Explorer**.

What You Should Do

1. Open the model.
2. Click **File > Define Workspace**.
3. On the **Define Workspace** dialog box, click **Create New Filter** in the **Filter** box.
4. On the **New Filter Properties** dialog box, type a unique name in the **Name** box for the filter you are about to create.
5. Click the **Properties** tab.
6. In the **Property** column, click **More....**
7. On the **Select Properties** dialog box, click **More...** in the **Object type used as basis for the property identification** box.
8. On the **Select Object Type** dialog box, select the appropriate object type, and click **OK**.
9. On the **Select Properties** dialog box, click the **Name** row, and then click **OK**.
10. On the **New Filter Properties** dialog box, select = in the **Operator** column in the **Name** row.
11. In the **Value** cell in the **Name** row, type the name of the object.
12. Click **OK** on the **New Filter Properties** dialog box.
13. Click **OK** on the **Define Workspace** dialog box. The object(s) now appear in the **Workspace Explorer** at the root level.
14. Right-click the object, and select **Properties**. Modify the object to place it where needed in the system hierarchy.

Object has more than one parent

Message

Object has more than one parent.

Severity

High.

Detailed Description

A child object has a parent/child relationship with more than one parent object.

Possible Cause

A serious and unexpected error has occurred, likely while changing the child object's parent.

Possible Impacts

Because the object does not have a proper parent/child relationship to a parent object in the database, it cannot be displayed in the **Workspace Explorer** or other tree views. Any branch of the system hierarchy below such an object will also not be displayed in the **Workspace Explorer** or other tree views. The broken object and any objects and parts in the branch below the broken object are lost from view, even though they continue to exist in the database.

What You Should Do

1. Open the model.
2. Click **File > Define Workspace**.
3. On the **Define Workspace** dialog box, click **Create New Filter** in the **Filter** box.
4. On the **New Filter Properties** dialog box, type a unique name in the **Name** box for the filter you are about to create.
5. Click the **Properties** tab.
6. In the **Property** column, click **More....**
7. On the **Select Properties** dialog box, click **More...** in the **Object type used as basis for the property identification** box.
8. On the **Select Object Type** dialog box, select the appropriate object type, and click **OK**.
9. On the **Select Properties** dialog box, click the **Name** row, and then click **OK**.
10. On the **New Filter Properties** dialog box, select = in the **Operator** column in the **Name** row.
11. In the **Value** cell in the **Name** row, type the name of the object.
12. Click **OK** on the **New Filter Properties** dialog box.
13. Click **OK** on the **Define Workspace** dialog box.
14. Click **OK** on the **Define Workspace** dialog box. The object(s) now appear in the **Workspace Explorer** at the root level.

15. Right-click the object, and select **Properties**. Modify the object to place it where needed in the system hierarchy.

Object is the parent of itself

Message

Object is the parent of itself.

Severity

High.

Detailed Description

An object has a parent/child relationship with itself.

Possible Cause

A serious and unexpected error has occurred, likely while changing the child object's parent.

Possible Impacts

Because the object does not have a proper parent/child relationship to a parent object in the database, it cannot be displayed in the **Workspace Explorer** or other tree views. Any branch of the system hierarchy below such an object will also not be displayed in the **Workspace Explorer** or other tree views. The broken object and any objects and parts in the branch below the broken object are lost from view, even though they continue to exist in the database.

What You Should Do

1. Open the model.
2. Click **File > Define Workspace**.
3. On the **Define Workspace** dialog box, click **Create New Filter** in the **Filter** box.
4. On the **New Filter Properties** dialog box, type a unique name in the **Name** box for the filter you are about to create.
5. Click the **Properties** tab.
6. In the **Property** column, click **More....**
7. On the **Select Properties** dialog box, click **More...** in the **Object type used as basis for the property identification** box.
8. On the **Select Object Type** dialog box, select the appropriate object type, and click **OK**.
9. On the **Select Properties** dialog box, click the **Name** row, and then click **OK**.
10. On the **New Filter Properties** dialog box, select **=** in the **Operator** column in the **Name** row.
11. In the **Value** cell in the **Name** row, type the name of the object.
12. Click **OK** on the **New Filter Properties** dialog box.
13. Click **OK** on the **Define Workspace** dialog box.

14. Click **OK** on the **Define Workspace** dialog box. The object(s) now appear in the **Workspace Explorer** at the root level.
15. Right-click the object, and select **Properties**. Modify the object to place it where needed in the system hierarchy.

System does not have a parent

Message

System does not have a parent.

Severity

High.

Detailed Description

A child system has no parent/child relationship with a parent system.

Possible Cause

A serious and unexpected error has occurred, likely while changing the child system's parent.

Possible Impacts

Because the system does not have a proper parent/child relationship to a parent system in the database, it cannot be displayed in the **Workspace Explorer** or other tree views. Any branch of the system hierarchy below such a system will also not be displayed in the **Workspace Explorer** or other tree views. The broken system and any systems and parts in the branch below the broken system are lost from view, even though they continue to exist in the database.

What You Should Do

1. Open the model.
2. Click **Tools > Custom Commands**.
3. Run the **Clean Database** custom command.
4. On the **Clean Database** dialog box, select the objects with this problem description.
5. Click **Clean Now**. This operation will fix all of the systems that have this problem.
6. Close the **Clean Database** dialog box.

The corrected systems will not be visible yet. The **Workspace Explorer** and tree views use caching that is not updated when the **Clean Database** command is executed. Even refreshing or reloading the workspace will not cause the corrected systems to become visible. You must close and then re-open the session before the cleaned systems become visible.

7. Save and exit the session.
8. Re-open the session.

The cleaned systems are placed in the hierarchy as children of the root. You can move them as needed.

System has more than one parent

Message

System has more than one parent.

Severity

High.

Detailed Description

A child system has a parent/child relationship with more than one parent system.

Possible Cause

A serious and unexpected error has occurred, likely while changing the child system's parent.

Possible Impacts

Because the system does not have a proper parent/child relationship to a parent system in the database, it cannot be displayed in the **Workspace Explorer** or other tree views. Any branch of the system hierarchy below such a system will also not be displayed in the **Workspace Explorer** or other tree views. The broken system and any systems and parts in the branch below the broken system are lost from view, even though they continue to exist in the database.

What You Should Do

1. Open the model.
2. Click **Tools > Custom Commands**.
3. Run the **Clean Database** custom command.
4. On the **Clean Database** dialog box, select the objects with this problem description.
5. Click **Clean Now**. This operation will fix all of the systems that have this problem.
6. Close the **Clean Database** dialog box.

The corrected systems will not be visible yet. The **Workspace Explorer** and tree views use caching that is not updated when the **Clean Database** command is executed. Even refreshing or reloading the workspace will not cause the corrected systems to become visible. You must close and then re-open the session before the cleaned systems become visible.

7. Save and exit the session.
8. Re-open the session.

The cleaned systems are placed in the hierarchy as children of the root. You can move them as needed.

System has unneeded NamingParent relation

Message

System has unneeded NamingParent relation.

Severity

High.

Detailed Description

The delivered **User Defined** naming rule for system objects for versions prior to 2009.1 was creating this unnecessary relationship. Database Integrity scripts were provided with 2009.1 to detect this redundant relationship and delete them from model.

Possible Cause

Error in the delivered **User Defined** naming rule for system objects for versions prior to 2009.1.

Possible Impacts

Performance issues with certain operations such as **Restore As Copy** in the Project Management task.

What You Should Do

Run the **Clean Database** custom command to delete this relation.

System is the parent of itself

Message

System is the parent of itself.

Severity

High.

Detailed Description

A system has a parent/child relationship with itself.

Possible Cause

A serious and unexpected error has occurred, likely while changing the child system's parent.

Possible Impacts

Because the system does not have a proper parent/child relationship to a parent system in the database, it cannot be displayed in the **Workspace Explorer** or other tree views. Any branch of the system hierarchy below such a system will also not be displayed in the **Workspace**

Explorer or other tree views. The broken system and any systems and parts in the branch below the broken system are lost from view, even though they continue to exist in the database.

What You Should Do

1. Open the model.
2. Click **Tools > Custom Commands**.
3. Run the **Clean Database** custom command.
4. On the **Clean Database** dialog box, select the objects with this problem description.
5. Click **Clean Now**. This operation will fix all of the systems that have this problem.
6. Close the **Clean Database** dialog box.

The corrected systems will not be visible yet. The **Workspace Explorer** and tree views use caching that is not updated when the **Clean Database** command is executed. Even refreshing or reloading the workspace will not cause the corrected systems to become visible. You must close and then re-open the session before the cleaned systems become visible.

7. Save and exit the session.
8. Re-open the session.

The cleaned systems are placed in the hierarchy as children of the root. You can move them as needed.

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